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# A study on the genus *Chrysolina* MOTSCHULSKY, 1860, with a checklist of all the described subgenera, species, subspecies, and synonyms (*Coleoptera*: *Chrysomelidae*: *Chrysomelinae*)

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ABSTRACT. A checklist of all known *Chrysolina* species is presented. Sixty five valid subgenera, 447 valid species and 251 valid subspecies are recognized. The following new synonymy is established: *Chrysolina* (*Apterosoma* MOTSCHULSKY) (=*Caudatochrysa* BECHYNÉ), *Ch*. (*Synerga* WEISE) (=*Chrysonotum* J. SAHLBERG), *Ch*. (*Sulcicollis* J. SAHLBERG) (=*Minckia* STRAND), *Ch*. (*Bittotaenia* MOTSCHULSKY) (=*Gemellata* J. SAHLBERG, partim), *Ch*. (*Hypericia* BEDEL) (=*Gemellata* J. SAHLBERG, partim), *Ch*. (*Ovosoma* MOTSCHULSKY) (=*Gemellata* J. SAHLBERG, partim, =*Byrrhiformis* J. SAHLBERG, partim), *Ch*. (*Colaphoptera* MOTSCHULSKY) (=*Byrrhiformis* J. SAHLBERG, partim), *Ch. aeruginosa poricollis* MOTSCHULSKY (=*lobicollis* FAIRMAIRE), *Ch. apsilaena* DACCORDI (=*rosti kubanensis* L.MEDVEDEV et OKHRIMENKO), *Ch. fastuosa biroi* CSIKI (=*fastuosa jodasi* BECHYNÉ, 1954), *Ch. differens* FRANZ (=*trapezicollis* BECHYNÉ), *Ch. difficilis ussuriensis* JACOBSON (=*pubitarsis* BECHYNÉ), *Ch. difficilis yezoensis* MATSUMURA (=*exgeminata* BECHYNÉ, =*nikinoja* BECHYNÉ), *Ch. marginata marginata* LINNAEUS (=*finitima* BROWN), *Ch. pedestris* GEBLER (=*pterosticha* FISCHER DE WALDHEIM), *Ch. reitteri saxonica* DACCORDI (=*diluta* KRYNICKI). *Ch. elbursica* LOPATIN is treated as a subspecies of *Ch. tesari* ROUBAL, *Ch. unicolor alaiensis* LOPATIN - as *Ch. dieckmanni alaiensis*, and *Ch. poretzkyi* JACOBSON as a subspecies of *Ch. subcostata* GEBLER. *Ch. peninsularis* BECHYNÉ is a distinct species, but a subspecies of *Ch. aeruginosa*, *Ch. brahma* TAKIZAWA is a good species, not a synonym of *Ch. lia* JACOBSON (= *freyi* BECHYNÉ), and *Ch. dzhungarica* JACOBSON is a good species, not a synonym of *Ch. alatavica* JACOBSON. Subgenus *Bittotaenia* MOTSCHULSKY is transferred from *Crosita* to *Chrysolina*. *Ch. palmyrensis* BECHYNÉ (with a subspecies *assurensis* BECHYNÉ) is transferred to the subgenus *Ch*. (*Paradiachalcoidea*). *Ch. auripennis* SAY, *Ch. basilaris* SAY, *Ch. cyanea* SCHAEFFER, *Ch. cribraria* ROGERS, and *Ch. inornata* ROGERS are transferred to the subgenus *Ch*. (*Allohypericia*). *Ch. cilissa* JACOBSON, *Ch. sellata* WEISE, *Ch. lehri* LOPATIN, *Ch. unicolor* GEBLER, and *Ch. dieckmanni* MOHR are transferred to the subgenus *Ch*. (*Chalcoidea*). *Ch. roddi* JACOBSON is included in the subgenus *Ch*. (*Crositops*), *Ch. alaschanica* JACOBSON and *Ch. przewalskyi* JACOBSON, 1898 - in

the subgenus *Ch*. (*Chrysocrosita*), and *Ch*. *subcostata poretzkyi* JACOBSON - in the subgenus *Ch*. (*Pleurosticha*). The genus *Cecchiniola* JACOBSON is included in the genus *Chrysolina* as a subgenus. *Timarchomima* (with a single species *T*. *indica*) is regarded as a separate genus within the subtribe *Chrysolinina*, but not a subgenus of *Chrysolina*. Therefore, *Timarcholina* is a valid subgeneric name for the other former members of *Timarchomima*. Lectotypes of *Taeniosticha poricollis* MOTSCHULSKY, *Chrysomela pterosticha* FISCHER DE WALDHEIM, *Chrysolina nikinoja nikinoja* BECHYNÉ, *Ch*. *nikinoja exgeminata* BECHYNÉ, *Crosita alaschanica* JACOBSON, and *C*. *przewalskyi* JACOBSON are designated. *Ch*. *blanchei* FAIRMAIRE is recorded from Turkey, *Ch*. *aveyronensis* BECHYNÉ - from Spain, *Ch*. *numida* REICHE and *Ch*. *pardoi* CODINA PADILLA - from Tunisia, *Ch*. *koenigi* JACOBSON - from Kyrghyzstan, *Ch*. *brunnicornis bermani* L.MEDVEDEV - from Chita reg., *Ch*. *lopatini* MOHR - from Altai, *Ch*. *grata grata* - from Sinai, *Ch*. *analis* - from Algeria, *Ch*. *marginata borealis* - from Taimyr, and *Ch*. *eurina* - from European Russia (Moscow reg.) for the first time.

Key words: Entomology, *Coleoptera*, *Chrysomelidae*, *Chrysolina*, checklist, taxonomy.

## INTODUCTION

*Chrysolina* is a very large and diverse genus of leaf-beetles. Most species are distributed in Europe, Asia and Africa. A small number of species inhabits N. America (including introduced European ones). Some species were introduced into Australia. The last complete catalogue of *Chrysolina* was published by WEISE (1916). In this catalogue the species were arranged alphabetically, not corresponding to the subgenera. A taxonomical review of the genus by BECHYNÉ (1950, 1952) did not include all species known at that time, and some new subgenera and species were described later.

The present checklist is the first step of my taxonomical revision of the genus *Chrysolina* at the subgeneric level.

All available names of generic and specific levels belonging to *Chrysolina* are included. The names, which were first proposed as infrasubspecific ones and not arised to subspecific or specific rank, are unavailable (International Code of Zoological Nomenclature 1999, Art. 10.2). Therefore, I did not include such names in the checklist. The original rank of some old synonyms, which were cited after WEISE (1916), is still unknown to me. Probably, some of them are infrasubspecific and thus unavailable.

Papers devoted to systematics and distribution of certain taxa are numbered, and their respective numbers (in square brackets) are given in the checklist. In the checklist, subgenera, species within each subgenus, and subspecies within each species are arranged alphabetically.

I studied original descriptions of all the subgenera and most of the species, many other taxonomical papers (see References), „Coleopterorum Catalogus" (WEISE, 1916), and 45-135 volumes of „Zoological Record". Specimens of 277 species of *Chrysolina* were examined (marked with asterisk in the checklist).

I excluded from the checklist several taxa, which were transferred to *Chrysolina* by DACCORDI (1994): *Chersomela* WEISE, 1914 (one species from S.-W. Africa), *Liomela* WEISE, 1912 (two species from E. Africa), *Omolina* WEISE, 1909 (one species from Africa), *Oreina* CHEVROLAT, 1837 (23 species from Europe and Siberia), *Semenowia* WEISE (4 species from S. Asia), *Timarchida* GANGLBAUER, 1897 (2 species from Europe). The opinion of DACCORDI (1994) is not generally accepted now. Including of the above-listed taxa in the genus *Chrysolina* would require replacement of the several junior secondary homonyms, such as *Chrysolina aurichalcea bohemica* J. MÜLLER, 1948 and *Liomela relucens* DACCORDI, 1976.

TYPE MATERIALS

I have examined type specimens from the following collections:

LC - I.K. LOPATIN's collection, Minsk, Byelarus.
NMB - Naturhistorische Museum Basel, Switzerland.
ZIN - Zoological Institute of Russian Academy of Sciences, St.-Petersburg, Russia.
ZMMU - Zoological Museum of the Moscow State University.

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## RESULTS

Abbreviations used in the checklist:

C. - Central
E. - Eastern
Eur. - European
Isl. - Island
Is. - Islands
Mt. - Mountain
Mts.- Mountains
N. - Northern
Pen. - Peninsula
reg. - region
S. - Southern
W. - Western

Comments:

1. BECHYNÉ (1950) examined the types of both *Ch. lobicollis* and *Ch. mandarina* and concluded that they were conspecific. I compared the type specimens of *Taeniosticha poricollis* (lectotype is designated below) with both original description and recent interpretation of *Ch. lobicollis* (FAIRMAIRE, 1887 and BECHYNÉ, 1952 respectively) and came to a conclusion that *Ch. lobicollis* is a new junior synonym of *T. poricollis*. According to MOTSCHULSKY (1860), the type locality of *T. poricollis* is "Mongolie", while *Ch. lobicollis* and *Ch. mandarina* were described from China (Peking and Tai-Yuen-Fou, respectively). I also had at my disposal specimens of *Ch. aeruginosa poricollis* from China only. This subspecies differs from its allies in the shape of pronotum: lateral sides are nearly straight, being narrowed anteriorly and of the same colour as dorsum: bronzy black, shining in both sexes. This colour variation is not known from Mongolia (MEDVEDEV 1980). Therefore, I think that "Mongolie" in MOTSCHULSKY (1860) refers to China.

MATERIAL

***Ch. aeruginosa poricollis***: Lectotype, female (is designated here) with labels: "Mongol" [pink], "*Taeniosticha poricollis* MOTSCH. Mongol", "Lectotype *Taeniosticha poricollis* MOTSCHULSKY, 1860. design. BIEŃKOWSKI, 1993" [red], "*Chrysolina aeruginosa poricollis* MOTSCH. A. BIEŃKOWSKI det., 1997" ZMMU; two paralectotypes, females with labels "Mongol" [pink] and "Paralectotype" labels similar to "Lectotype" ZMMU.

2. JOLIVET (1992) included several American species, namely *Ch. auripennis*, *Ch. basilaris*, *Ch. cyanea*, *Ch. cribraria*, and *Ch. inornata* in the subgenus *Pezocrosita*. However, the presence of developed hind wings, shape of aedeagus apex (Figs 1-3), and other morphological features permit me to place them close to Asian species of the subgenus *Allohypericia*.

MATERIAL

***Ch. auripennis***: New Mexico: one male; Iowa, Bluffton, 9.1916: one female, SHIMEK leg.; Iowa: one male, H. WICKHAM leg.; Texas: one male.

***Ch. cyanea***: Arizona, Pinal Mount.: one male; Arizona: one male.

***Ch. basilaris***: California: one male.

3. I examined the specimens, which correspond to the original description of *Ch. aeruginosa peninsularis* and believe this taxon to be a separate species. The main differences between *Ch. peninsularis* and *Ch. aeruginosa* are the following: body is larger, length is: 8.2 mm (male) and 8.3-9.6 mm (female) in the specimens at my disposal, and 7.5-9.0 mm according to BECHYNÉ (1952); pronotum is broadest in the middle or just anteriorly to mid length, with arc-shaped lateral sides; humeral calli are very weak or absent. This species resembles *Ch. aeruginosa* in the aedeagus structure, coloration (above black with bronze reflection, shining in both sexes) and shape of prothoracic hypomeron (impression along outer margin of hypomeron with strong outer border separating smooth marginal stripe which is narrow basally and broad apically). *Ch. peninsularis* was described from Korea (Seoul).

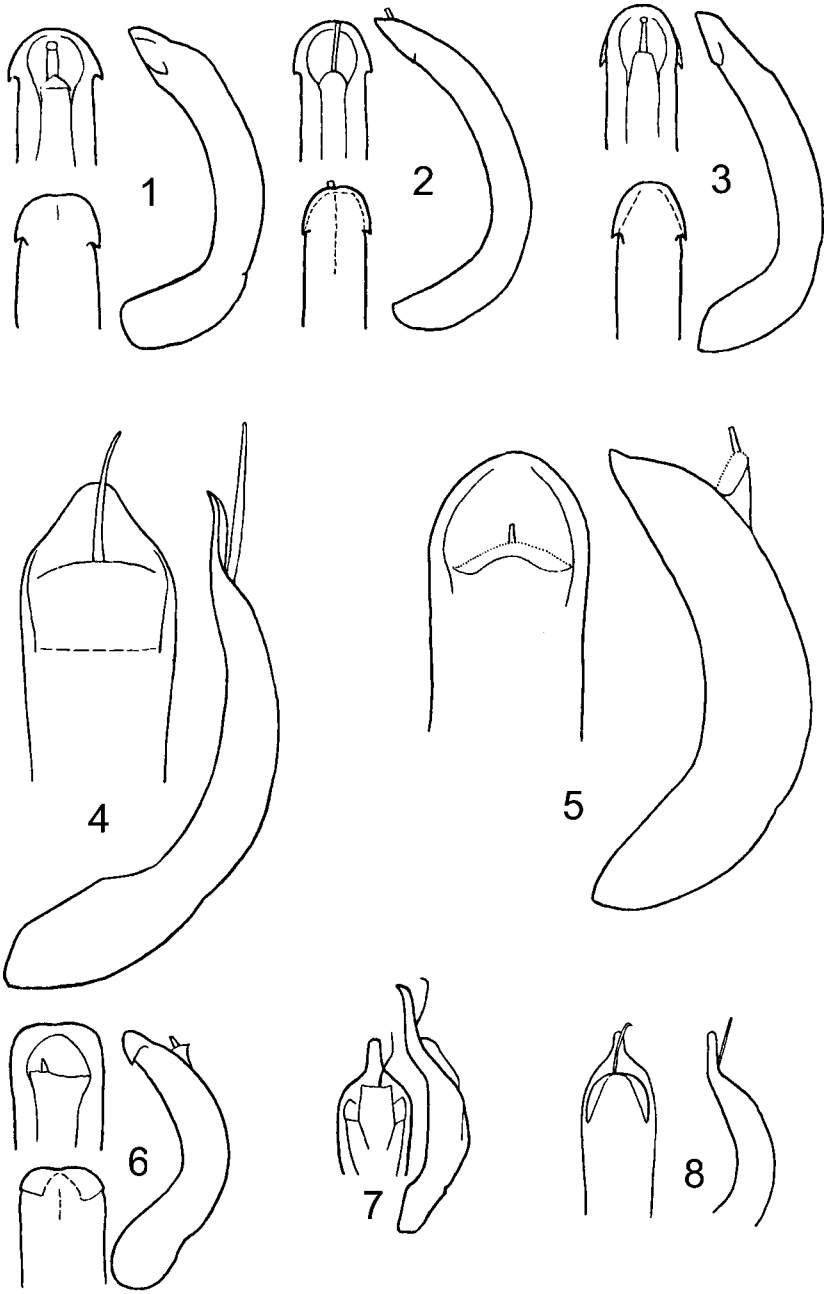
MATERIAL

***Ch. peninsularis***: Russia: Primorski Krai: envir. Khanka lake, Kamen'-Rybolov, 23.7.1908: 1 male, CHERSKII leg. Uncertain localities: Sombau, 18.9.1900: 1 female, P. SHMIDT leg.; Vanliskhotulev, 27.7.1897: 1 female, GROMBCHEV leg.

4. After publication of the revision (BIEŃKOWSKI 1998) of the subgenus *Anopachys*, I had a possibility to study the specimens of the rare European Alpine species, namely *Ch. eurina*. Now, I confirm that this species belongs to the subgenus *Anopachys*. The last segment of maxillary palpi in the male of *Ch. eurina* is not „strongly broadened" (BIEŃKOWSKI 1998), but only slightly broader than in other members of the subgenus *Anopachys*. Recently two specimens of this species were unexpectedly collected by Dr. N.B. NTKITSKY in European Russia (Moscow reg.). The male from this locality is absolutely identical (including aedeagus structure) with the available Austrian specimens.

MATERIAL

***Ch. eurina***: Austria: envir. Vienna, Kritzendorf, 29.8.1919: 1 male; Austria: 19.8.1919: 1 male. Russia: Moscow reg., Lukhovtsy Distr., envir. Chernaja Village, pitfall trap, 27.7.-31.8.2000: one male, one female, N.B. NIKITSKY leg.




1-8. Aedeagus: 1 - *Chrysolina auripennis*, 2 - *Ch. cyanea*, 3 - *Ch. basilaris*, 4 - *Ch. rufilabris*, 5 - *Ch. koenigi* (Kyrghyzstan: N.-E. Turkestanskii Ridge), 6 - *Ch. sogdiorum*, 7 - *Ch. brahma* (after TAKIZAWA, 1980), 8 - *Ch. lia*

5. Results of my revision of Arctic members of the subgenus *Arctolina* (in preparation for publication now) are presented here.

6. MONROS & BECHYNÉ (1956) designated *Ch. striata* FABRICIUS as a type species of the subgenus *Atechna*. Later, DACCORDI (1980) erroneously mentioned *Ch. duodecimguttata* as type species of the subgenus in question. Among species being at my disposal, *Ch. dissoluta*, *Ch. duodecimguttata*, *Ch. figurata*, *Ch. hebe*, *Ch. pardalina*, *Ch. revestita*, and *Ch. vigintimaculata* correspond to the diagnosis of the subgenus *Atechna* sensu DACCORDI (1980). However, *Ch. tetraspilota*, *Ch. fasciata*, and *Ch. striata* differ from *Atechna* sensu DACCORDI (1980) in the presence of setae along the entire length of elytral epipleura and should be placed close to the subgenus *Camerounia* on the basis of this character. They differ from the latter subgenus in the following characters: last segment of maxillary palpi is narrow, elongate; elytral epipleura are oblique, visible on entire length in lateral view. However, only *Ch. tetraspilota*, *Ch. fasciata*, and *Ch. striata* are real members of the subgenus *Atechna* CHEVROLAT. Therefore, the subgenus *Atechna* requires a revision. *Ch. dissoluta*, *Ch. duodecimguttata*, *Ch. figurata*, *Ch. hebe*, *Ch. pardalina*, *Ch. revestita*, *Ch. vigintimaculata*, and probably some other species should be transferred from *Atechna* to a new subgenus.

MATERIAL

***Ch. dissoluta***: S. Africa: Cape of Good Hope: 1 male.
***Ch. duodecimguttata***: S. Africa: Natal: 2 spec.
***Ch. fasciata***: S. Africa: Cape Province: 1 specimen.
***Ch. figurata***: S. Africa: Cape of Good Hope: 1 spec.
***Ch. hebe***: S. Africa: Cape Province: 1 male.
***Ch. pardalina***: S. Africa: Cape of Good Hope: 5 spec.; Natal: 1 spec.
***Ch. revestita***: Africa: 1 male without locality data.
***Ch. striata***: Africa: Transvaal: 1 female; Kenya, Mombasa: 1 female.
***Ch. tetraspilota***: S. Africa: Cape of Good Hope: 1 spec.; 3 specimens without locality data.
***Ch. vigintimaculata***: S. Africa: Natal: 1 male, 1 female.

7. BECHYNÉ (1950) considered *Bittotaenia* to be a subgenus of the genus *Crosita* on the basis of the structure of tarsi "Le troisieme article ... est echancre au sommet bien profondement et la brosse du dessous des tarses est interrompue d'un sillon longitudinal glabre". This is true of *Crosita*. However, the species of *Bittotaenia* being at my disposal have the third segment of hind tarsi with a shallower emargination at apex. Hind wings are absent in all members of *Crosita* and present in all members of *Bittotaenia* as well as in a number of representatives of *Chrysolina*. Therefore, I transfer the subgenus *Bittotaenia* from the genus *Crosita* to the genus *Chrysolina*. Within the genus *Chrysolina*, the subgenus *Bittotaenia* is close to the subgenus *Lithocrosita*. Besides, I agree with MEDVEDEV

(1985), who believed *Bittotaenia lia* to be a member of the subgenus *Chrysolina* (*Chalcoidea*). The aedeagus structure (Fig. 8), the shape of pronotum (lateral calli are separated from disc with deep impressions basally and shallow impressions covered with large punctures anteriorly), and coloration (body is black with lateral margin of elytron is red) in this species are typical of *Ch*. (*Chalcoidea*).

MATERIAL

***Ch.* (*Bittotaenia*) *grata***: Iran: Teheran, 8.1949: 1 female, TAGHAVI leg. Turkmenistan: Kjuretdag, Danata, 23.4.1974: 1 male, 1 female, G.S. MEDVEDEV leg.; Firjuza, 1.8.1991: 1 female, P. OUDOVICHENKO leg.; envir. Nebit-Dag, 2.4.1993: 1 male, 1 female, D. MILKO leg.; Bolshoi Balkhan ridge, 15.4.1975: 1 male, N. DUBROVIN leg.; Ai-Dere, 28.4.1952: 1 male, 1 female, ILJICHEV leg.; Annau, 17.6.1902: 1 male, P. ANGER leg.; Ashkhabad, 20.6.1977: 1 female. Armenia: Megri, 18.4.1959: 1 male, E. ANTONOVA leg. Azerbaijan: Shusha, 2.4.: 1 female. Afghanistan: N.-E. Gerat, Karokh, 1200 m, 18.11.1969: 1 male, 1 female, O.N. KABAKOV leg.

***Ch.* (*Bittotaenia*) *aeneipennis***: Israel: Negev Des., 4 km SE Shizzafon, 14.4.1994: 1 male.

***Ch.* (*Bittotaenia*) *turanica***: Afghanistan: Gazni, 20 km W Mukara, 2000 m, 12.10.1972: 4 males, 1 female, O.N. KABAKOV leg.

***Ch.* (*Bittotaenia*) *salviae salviae***: Montenegro: Podgorica, 1900: 1 male, 1 female, FUEHRER leg.

***Ch.* (*Bittotaenia*) *salviae catalonica***: Spain: Huesca, Los Monegros-dint, Monegrillo, 15.6.1987: 1 female, MEREGALLI leg.

***Ch.* (*Bittotaenia*) *salviae sculptipennis***: Armenia: Maralik, 1.10.1952: 1 male, DAREVSKY leg.; Azerbaijan: Talysh, 21-24.8.1985: 1 female, V. BELOV leg.; Lenkoran, 23.4.1909: 1 male, KIRICHENKO leg. Georgia: Tbilisi, 18.1.1930: 1 male, 1 female, KIRSHENBLAT leg. Turkey: Trabzon, 6.5.1917: 1 male, 4.2.1917: 1 male, W. EICHLER leg.; Kumalar Daglari Mounts., 1400-2200 m (50 km S Afyon), 21.6.1999: 1 male, S. BENEDIKT leg.

***Ch.* (*Bittotaenia*) *compuncta***: Israel: Jerusalem: 1 male. Turkey: Guelek Bodhaz, 1897: 1 female, M. HOLTZ leg. Iran: Giljan, 19.5.1903: 1 male, 1 female, ZARUDNY leg.

***Ch.* (*Chalcoidea*) *lia***: Iran: Teheran, 1.10.1947: 1 female. Afghanistan: Gazni, 20 km W Mukura, 2000 m, 12.10.1972: 1 male, 1 female, O.N. KABAKOV leg. Tadzhikistan: Pamir, 22.6: 2 males, 1 female, N. BOGOJAVLENSKY leg. Turkmenistan: Kopet Dagh, 24.9.1935: 1 female, K. ARNOLDI leg.

***Crosita clementzae clementzae***: Mongolia: 1 male, 1 female.

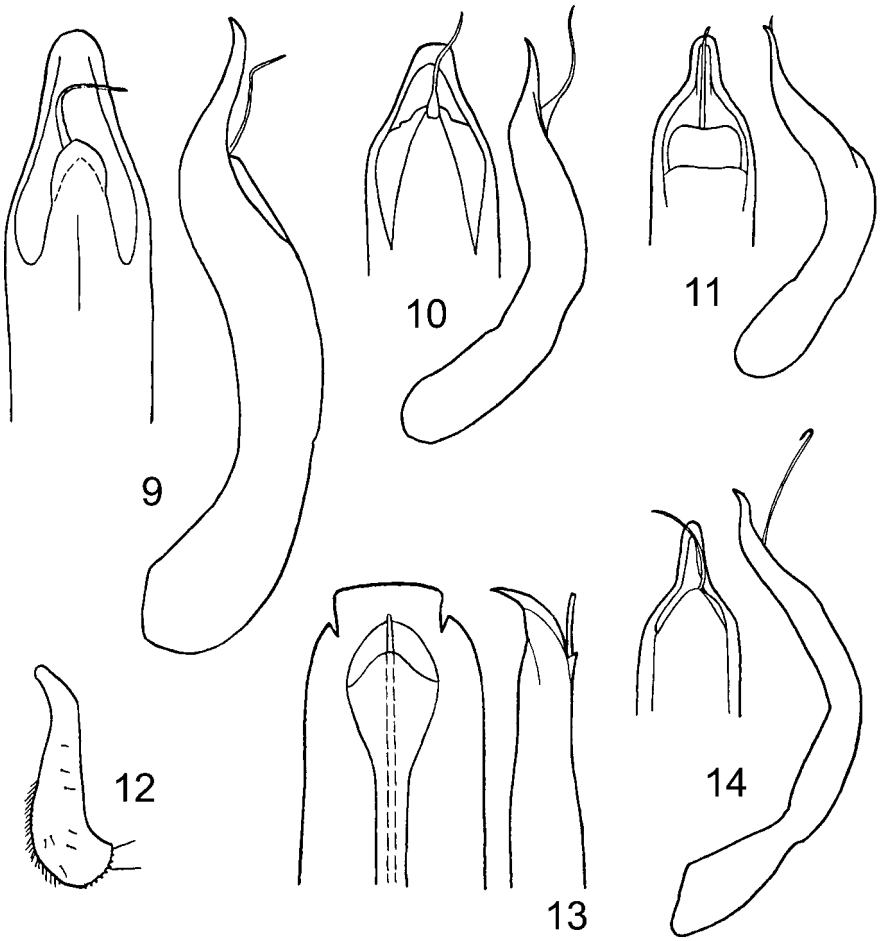
***C. clementzae atasica***: Mongolia: 1 male, 1 female.

***C. longipes***: Altai, Tuva, Mongolia: 6 spec.

***C. kowalewskii kowalewskii***: Mongolia: 4 males, 3 females.

***C. kowalewskii matronula***: Mongolia: 1 male.

***C. kaszabi***: Mongolia: 1 male.
***C. altaica altaica***: Kazakhstan, Kyrghyzstan: 10 spec.
***C. altaica faldermanni***: Kazakhstan: 1 spec.
***C. urumchiana***: China, E. Tien Shan: 2 males, 2 females.
***C. pigra***: Altai, Tuva: 2 males, 1 female.




9-11, 13-14. Aedeagus: 9 - *Chrysolina unicolor*, 10 - *Ch. dieckmanni* (after MOHR, 1966), 11 - *Ch. marginata* (Bering Sea: Providence Bay), 13 - *Ch. roddi* (Russia: Chelyabinsk reg.), 14 - *Ch. analis* (Algeria). 12 - *Ch.* (*Cecchiniola*) *platyscelidina*, fore tibia

8. The subgeneric name *Chrysomela* (*Gemellata*) was originally proposed (SAHLBERG 1913) in the combination with the available names *Ch. sahlbergi* MÉNÉTRIÉS, *Ch. didymata* SCRIBA, *Ch. hyperici* FORSTER, *Ch. syriaca* WEISE, and *Ch. aeneipennis* REICHE. The type species was not designated. Therefore, this subgeneric name is available (ICZN, 1999, Art. 12.2.5), and it is a junior synonym of *Bittotaenia* MOTSCHULSKY partim, *Hypericia* BEDEL partim, and *Ovosoma* MOTSCHULSKY partim.

9. Specimen of *Ch. grata* from Egypt (Sinai, Jebel Jibal, 2500 m, 28.1.1998: 1 male, T. PAVLICEK leg.) being at my disposal corresponds to those from Armenia, Azerbaijan, Turkmenistan, Iran, and Afghanistan with respect to most characters (including punctation of elytral apical slope which is wholly confused and homogeneous) and differs only in sparser and finer punctation of pronotal disc (interspaces are broader than punctures everywhere). Specimen from S. Turkey (Birecik, 2.5.1994: 1 male, A. TRMAL leg.) is dark bronze with weak greenish tint on elytra and wholly corresponds to the available specimens of *Ch. grata* from Turkmenistan.

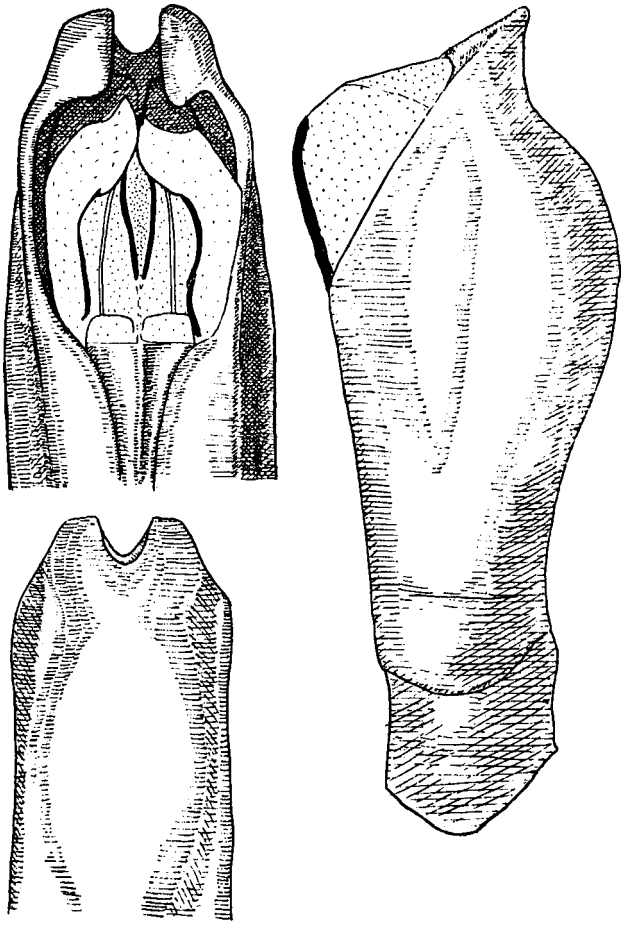
10. In the original description of the genus *Cecchiniola* the author (JACOBSON 1908) pointed out the following combination of diagnostic characters: the second tarsal segment is broad, saucer-shaped (this shape also occurs in various subgenera of *Chrysolina*), the last segment of maxillary palpus is narrower than the previous one (this is also typical of the species of the subgenus *Threnosoma*), tarsi with reduced pubescence beneath (this reduction is pronounced to various degree in males and females of the subgenera *Bittotaenia*, *Allohypericia*, *Chalcoidea*, and in females of *Pezocrosita*), and tibiae broadened apically (Fig. 12) (a similar shape of tibiae is also present in two species of the subgenus *Pezocrosita*, namely, *Ch. tibialis* and *Ch. rufilabris*). Therefore, the mentioned charactes do not permit a clear separation of *Cecchiniola* from *Chrysolina*. On the other hand, the single species of *Cecchiniola*, namely *C. platyscelidina*, has very conspicuous complicated aedeagus (Fig. 15). This fact permit to regard *Cecciniola* as a separate subgenus within the genus *Chrysolina*.

MATERIAL

***Ch. platyscelidina***: Holotype, male with labels: "Crimea, Almachik, Alma river, 1885, G. RYBAKOV leg." ZIN. Additional materials: Crimea: Simferopol, Dubki, 25.2.1894: 1 male, S. MOKRZECKI leg.; Simferopol, 25.2.: 1 male; Simferopol, 23.3.1907: 1 female, KIRITSCHENKO leg.

11. *Ch. analis* is known to be distributed widely in Western Europe and Ukraine (BOURDONNE & DOGUET 1991). I also have at my disposal the specimens from Russia (Kursk reg., Ryazan reg., Jaroslavl, St.-Petersburg) and Estonia (Tallin). Furthermore, *Ch. analis* is firstly recorded from Northern Africa (Fig. 14) (Algeria, 1860: 1 male, 2 females, C. MORAWITZ leg.).

12. *Chrysolina brahma* (Fig. 7) was described from India (Bashahr State, Chini) (TAKIZAWA 1980) and then suppressed as a junior synonym of *Ch. freyi* by DACCORDI (1982). However, TAKIZAWA (1980) added a number of characters which distinguish *Ch. brahma* from *Ch. freyi*: "Male. Body ... dark reddish brown with dull reflections, slightly infuscate on head and pronotum; epipleuron, coxae, antenna on basal four segments and mouth-parts slightly light brownish"; "tarsi with basal three segments wholly ciliate beneath". "Female. Tarsi with a naked longitudinal area on underside of 1st segment". Therefore, I believe it to be a good species, whereas *Ch freyi* is a junior synonym of *Ch. lia* (LOPATIN, 1996).



15. *Ch.* (*Cecchiniola*) *platyscelidina*, aedeagus

13. BECHYNÉ (1952) considered *Ch. cilissa* as a subspecies of *Ch. sellata*. I examined the holotype (male) of *Ch. cilissa* (Fig. 28), two more females from the type locality, and the original descriptions of both *Ch. cilissa* and *Ch. sellata* (JACOBSON 1924 and WEISE 1894, respectively). I regard *Ch. cilissa* as a separate species which differs from *Ch. sellata* in the coloration of body and the aedeagus structure. Aedeagus of the type of *Ch. sellata* was studied and figured by MEDVEDEV & OKHRIMENKO (1991). I include *Ch. cilissa* in the subgenus *Chalcoidea*, because it is close to *Ch.* (*Chalcoidea*) *interstincta* in the sculpture of pronotum and elytra and to *Ch.* (*Chalcoidea*) *hyrcana* in the aedeagus structure.

MATERIAL

***Chrysomela cilissa***: Holotype, male with labels: "Gulek Bodhaz, Taur. cilic. As. min., M. HOLTZ 97", "*Chr. cilissa*", "Holotype *Chrysomela cilissa* JACOBSON, 1924" [red, added by A. BIEŃKOWSKI], "*Chrysolina cilissa* (JACOBSON), A. BIEŃKOWSKI det. 1999" ZIN. Additional materials: 2 females (topotypes) with the same geographic labels.

14. *Ch. dieckmanni* was originally included (MOHR 1966) in the subgenus *Pezocrosita* being close to *Ch. unicolor* (see also remark 21). According to MOHR (1966), *Ch. dieckmanni* has developed hind wings and differs from *Ch. unicolor* mainly in the proportions of aedeagus (Fig. 10). Therefore, I transfer *Ch. dieckmanni* to the subgenus *Chalcoidea*.

15. I believe that the subspecies *alaiensis* is closer to *Ch. dieckmanni* than to nominotypical subspecies of *Ch. unicolor* on the basis of external morphology and aedeagus structure.

16. *Ch. hyrcana* is first recorded from European Russia.

MATERIAL

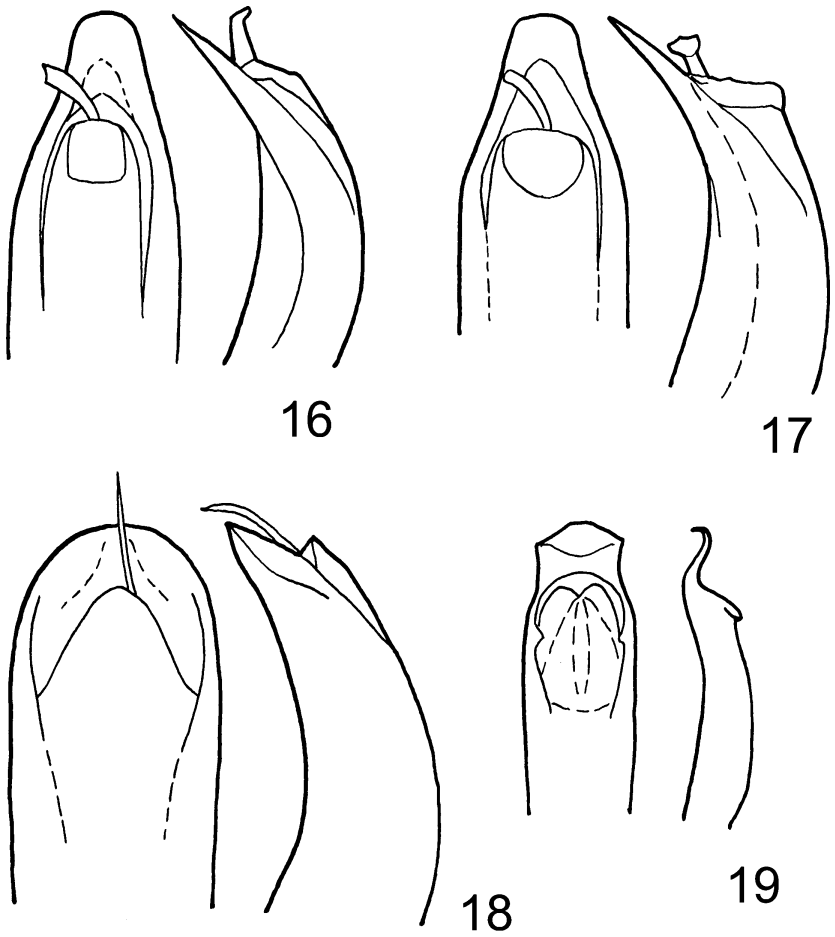
***Ch. hyrcana***: Russia: Saratov reg.: Aleksandrov-Gai, 24.6.1999: 1 female, A. BIEŃKOWSKI leg.; Volgograd reg.: envir. Elton lake, 13.-15.6.1999: 2 males, 2 females, V. SAVITSKY leg.; Astrakhan reg.: envir. Basinskaya, 4.-9.7.1998: 2 males, 2 females, V. SAVITSKY, M. SAVITSKY leg.

17. *Ch. lehri* was originally included (LOPATIN 1970) in the subgenus *Pezocrosita*. I transfer this species to the subgenus *Chalcoidea* on the basis of the following combination of characters: body is black or bluish black above, elytron bears rufous lateral stripe; last segment of maxilary palpus is cylindrical, not broader than the previous one, not sexually dimorphic; elytron bears undulated or slightly irregular rows of coarse punctures; hind wings developed. Externally, *Ch. lehri* resembles *Ch.* (*Chalcoidea*) *cilissa*. The aedeagus structure is also rather similar in these two species.

MATERIAL

***Ch. lehri***: S.-E. Kazakhstan: envir. Narynkol, Ak-kungoi Mountains, 2.8.1948: 1 male, BEI-BIENKO leg.; E. Kazakhstan: Zaisan: 1 female; Altai: 25.7.1926: 1 female.

18. *Ch. finitima* was originally described from Alaska (Nome). I examined specimens from the Bering Sea shore (Fig. 11), which, on one hand, are conspecific with *Ch. marginata marginata* from Europe, and, on the other hand, correspond to the original description and figures of aedeagus of *Ch. finitima*. Therefore, I believe *Ch. finitima* to be a new junior synonym of *Ch. marginata* marginata. This synonymy was suspected before (CHERNOV et al. 1993).




16-19. Aedeagus: 16 - *Ch. nikinoja nikinoja* (lectotype), 17 - *Ch. nikinoja exgeminata* (lectotype), 18 - *Ch. koktumensis*, 19 - *Ch. minckwitzi winneguthi*

MATERIAL

***Ch. marginata***: Bering Sea, Gulf of Anadyr, Providence Bay, 31.8.1910: 4 males, 2 females, STAROKAD leg.

19. ***Ch. marginata borealis*** is found at Taimyr Peninsula for the first time: Taimyr: Tareia, 8.8.1966: 1 male, Yu. I. CHERNOV leg.

20. I compared the original description and figures of aedeagus of *Ch. elbursica* with the specimens of *Ch. tesari* and found these two species to be morphologically very close. *Ch. elbursica* differs from *Ch. tesari* only in the larger body and blackish bronze elytra bearing narrower rufous lateral stripe. Recently, I found *Ch. elbursica* from Western Turkmenistan (BIEŃKOWSKI 1997, determined as *Ch. tesari*). *Ch. tesari* and *Ch. elbursica* have adjoing allopatric areas, are rather close externally and have identical aedeagi, so I believe that *Ch. elbursica* should be considered as a subspecies of *Ch. tesari*.

MATERIAL

***Ch. tesari tesari***: Russia: Ingushia: Salgi, 29.7.1927: 1 female, KIRICHENKO leg., North-Ossetia: Alagir canyon, Unal, Tragakantniki, 1100 m, 15.9.1988: 1 male, N.A. SHEVCHENKO leg; Azerbaijan: Lenkoran, 6.7.1901: 1 male, ZAVADSKY leg.

***Ch. tesari elbursica***: Turkmenistan: Bolshoi Balkhan ridge, N slope, 8.5.1976: 1 male, 3 females, G.S. MEDVEDEV leg.; „Trans Caspi. Eylandt [leg.]": 1 male; „Transcaspia, in montibus prope Germab": 1 female, V. PELTZ leg.

21. KONTKANEN (1957), MOHR (1966a), and LOPATIN (1970, 1977) considered *Ch. unicolor* as a member of the subgenus *Pezocrosita*. However, this species has wholly developed hind wings and thrice curved aedeagus with bottle-shaped apex (Fig. 9). These characters permit me to transfer *Ch. unicolor* to the subgenus *Chalcoidea*.

MATERIAL

***Ch. unicolor***: Kyrghyzstan: Issyk Kul, At-Bashyr, 2600 m, 18.9.1969: 1 male, 1 female; Issyk Kul, Kadzi-Sai, 11.7.1994: 1 female, D.A. MILKO leg.; Naryn, 7-18.7.1923: 1 female, B. KUSIN leg.; Sarydzhas river, envir. Kensu, 7.1962: 1 male, KULIKOV leg.; Kirghizskii Mount., envir. Talas, 1600 m, 27.7.1988: 1 female; Kazakhstan: Alma-Ata reg., Khorgos, 29.5.1965: 2 females, E. SOKOLOV leg.

22. MEDVEDEV (1976) transferred *Crosita alaschanica* and *C. przewalskyi* to the genus *Chrysolina*, but did not include them in any subgenus. I think that these species belong to the subgenus *Chrysocrosita* because of the following combination of characters: last segment of maxillary palpus broader than long, transversely truncate, not sexually dimorphic; pronotum bears convex lateral callus

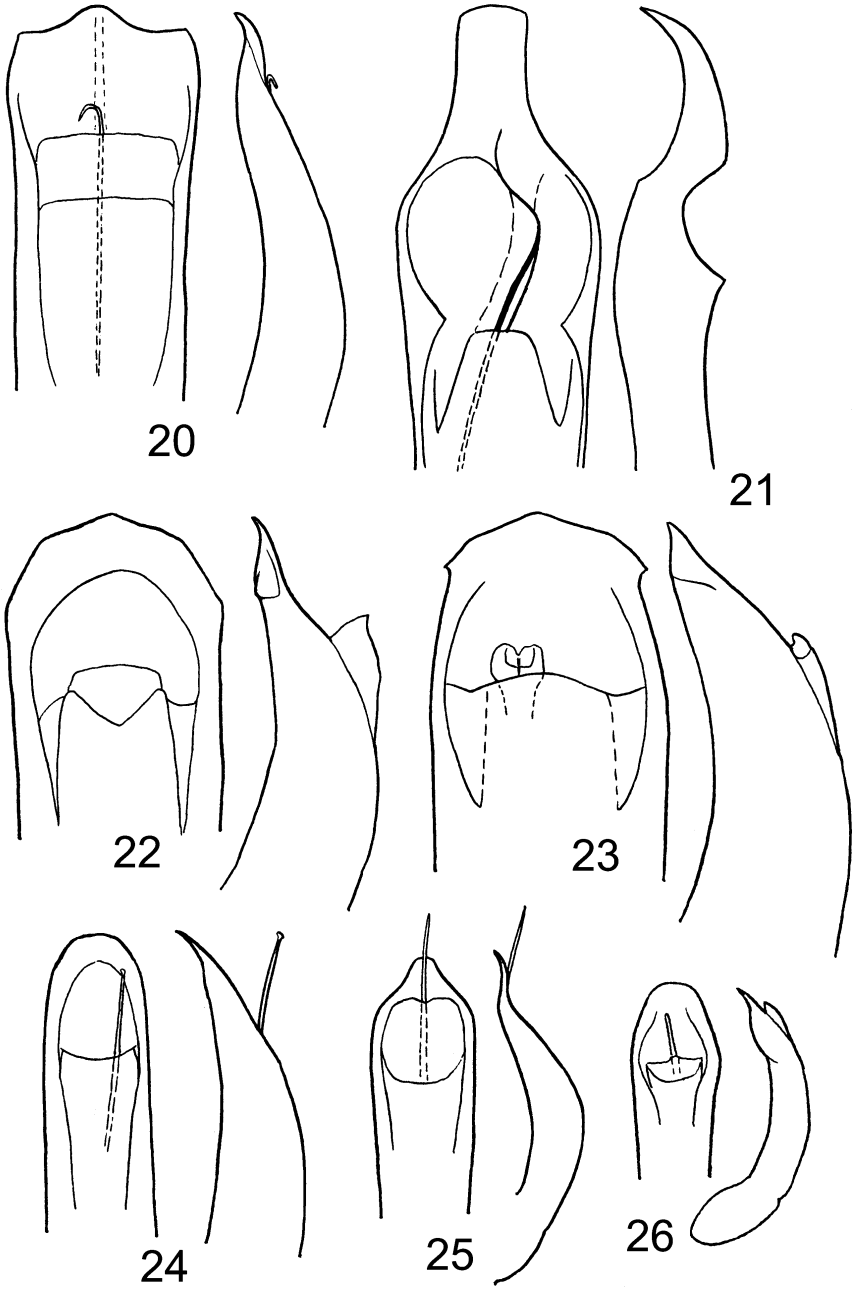
separated from disc by impression at entire length, lateral impression looks like furrow in basal half (as in *Ch. jakowlewi*); humeral callus and hind wing are absent; elytron confusedly punctate with wrinkled interspaces, having 2-3 slightly raised smooth longitudinal bands in *Ch. przewalskyi*, and 10 convex smooth calli (some of them are developed in basal half only), partly covered with punctures in *Ch. alaschanica*; in male, 1st-3rd tarsal segments are enlarged, wholly pubscent beneath; in female, 1st tarsal segment bearing broad glabrous stripe, 2nd with narrow stripe, and 3rd one is wholly pubescent beneath; pygidium bears distinct longitudinal groove at entire length; last abdominal sternum is convex, unmodified in both sexes; aedeagus (Fig. 22, 23) is similar to that of *Ch. spectabilis* and *Ch. jakowlewi*.

MATERIAL

***Ch. alaschanica***: lectotype, female (is designated here) with labels: "Alashan Mountains Przheval. 20 VI 73", "*Crosita alaschanica* typ Jac. G. JACOBSON det.", "*alashanica* JAC. = *filchnerae* WS. 1908", "*Chrysolina alashanica* JAC., L.N. MEDVEDEV det. 195...". "Lectotype *Crosita alaschanica* JACOBSON, 1898. A. BIEŃKOWSKI design. 1999" [red] ZIN. Paralectotype, female (is designated here) with labels: "Alashan Mountains Przheval. 20 VI 73", "17768", "*Crosita alaschanica* typ JAC. G. JACOBSON det.", red "Paralectotype" label similar to "Lectotype" ZIN. Additional material: China: Alashan Ridge: gorge Tszosto, 17-26.5.1908: 1 male, 1 female, KOZLOV exp. leg.; gorge Yamata, 5.5.1908: 1 female, KOZLOV exp. leg.; gorge Khotun-gol', 11-23.6.1908: 1 male, KOZLOV exp. leg.

***Ch. przewalskyi***: Lectotype, male (is designated here) with labels: "74891", "*Crosita przewalskii* typ o JAC. G. JACOBSON det.", "*Chrysolina przewalskii* JAC. L.N. MEDVEDEV det. 195...", "Lectotype *Crosita przewalskyi* JACOBSON, 1898. A. BIEŃKOWSKI design. 1999" [red] ZIN. Paralectotype, female (is designated here) with labels: „75828", "*Crosita przewalskii* typ JAC. G. JACOBSON det.", red "Paralectotype" label similar to "Lectotype" ZIN. Additional material: N.-E. China: Khingan, 2.6.1891: 1 male, 2.7.1891: 1 female. These specimens are smaller, and with elytra not so coarsely punctate as in the type specimens.

23. LOPATIN (1970, 1977) included *Ch. sogdiorum* in the subgenus *Pezocrosita*. I examined two males and three females of this species and transfer *Ch. sogdiorum* to the subgenus *Chrysocrosita* on the basis of the following combination of characters: last segment of maxillary palpus transverse, truncate, similar in the both sexes; pronotal lateral calli convex and delimited from the disc along whole length, lateral impressions represented by a furrow in basal 1/3, like those in *Ch.* (*Chrysocrosita*) *jakowlewi*, humeral calli and hind wings completely absent, elytra with minute confused punctation, 1st-3rd segments of all tarsi in male are wider than the respective ones in female; all female tarsi have the 1st segment with broad glabrous stripe, 2nd with narrow stripe, 3rd *Chrysolina* entirely pubescent beneath; pygidium has a deep furrow on its entire length; 5th abdomi-




20-26. Aedeagus: 20 - *Ch. seriepunctata*, 21 - *Ch. dohertyi*, 22 - *Ch. przewalskyi* (lectotype), 23 - *Ch. alaschanica*, 24 - *Ch. imperfecta* (Russia: Chechnia, Grozny), 25 - *Ch. lopatini* (Siberia: Altai), 26 - *Ch. palmyrensis assurensis* (Iran)

nal sternite is convex in both sexes, without special structures; aedeagus (Fig. 6) is similar to that of *Ch*. (*Chrysocrosita*) *spectabilis*.

MATERIAL

***Ch. jakowlewi***: E. Siberia: Yenisei valley, 16-20.7.1902: 2 males, 1 female, P. SUSHKIN leg.; W. Sayan Mts.: Oiskoe lake, 30.6.1902: 1 female, P. SUSHKIN leg.

***Ch. sogdiorum***: Kyrghyzstan: "Alatau Geb., E. FISCHER": 1 male. Specimens without locality data from O. STAUDINGER collection: 1 male, 1 female.

***Ch. spectabilis***: Russia: Tuva: Barun-Khemchik, 8.8.1962: 1 male, 29.7.1962: 1 female, D. BERMAN leg.; Khabarovsk Krai: Badzhalskii Ridge, W part, 40 km S from Mogdy, 1800m, 10-20.7.1997: 3 males, 2 females, A. BRINEV leg.

24. Three males of *Ch. spectabilis* from Khabarovsk Krai being at my disposal correspond to the descriptions of the nominotypical subspecies (MOTSCHULSKY 1860, MEDVEDEV & KOROTYAEV 1975): lateral impression of pronotum is deeper than in both *Ch. spectabilis viridipurpurea* and *Ch. spectabilis polychroma* and spreads on anterior half, elytron is red with discal stripe blackish, with epipleuron and narrow sutural stripe golden. However, two females from the same locality are closer to subspecies *viridipurpurea*: lateral impression of pronotum develops only near its base, elytron is red with broad sutural and lateral stripes goldish green, head and pronotum are green.

MATERIAL

***Ch. spectabilis***: see remark 23.

25. The subgeneric name *Chrysomela* (*Chrysonotum*) was originally proposed (SAHLBERG 1913) in combination with available names *Ch. viridana* and *Ch. angelica*. Therefore, this subgeneric name is available (ICZN, 1999, Art. 12.2.5).

26. The subgeneric name *Chrysomela* (*Byrrhiformis*) was originally proposed (SAHLBERG 1913) in combination with available names *Ch.vernalis* and *Ch. blanchei*. The type species was not designated. Therefore, this subgeneric name is available (ICZN, 1999, Art. 12.2.5), but it is a junior synonym of *Colaphoptera* MOTSCHULSKY partim and *Ovosoma* MOTSCHULSKY partim.

27. BECHYNÉ (1952) considered *Ch. fuscicornis* as a subspecies of *Ch. caspica*. Later MEDVEDEV & OKHRIMENKO (1991) reduced *Ch. caspica fuscicornis* to a synonym of the nominotypical subspecies. I have examined the original description of *Ch. fuscicornis*, description of *Ch. caspica* by WEISE (1892), and available specimens, and concluded that *Ch. fuscicornis* is a separate species, not a synonym or subspecies of *Ch. caspica*. *Ch. caspica* has the following features: body is smaller, more robust, pronotum without longitudinal pit in middle of lateral

impression. *Ch. fuscicornis* is larger (5.5-7.5 mm), more elongate, ovate; pronotal lateral impression bears longitudinal pit at midlength. *Ch. fuscicornis* differs also from *Ch. rosti* in the following characters: *Ch. rosti* is moderately convex, above purplish coppery, with antennae rusty reddish; pronotal lateral callus is separated anteriorly by a weak impression. *Ch. fuscicornis* is rather strongly convex, above coppery violaceous, with antennae pitch-black; pronotal lateral callus is separated by longitudinal pit at midlength. I have examined specimens which, on one hand, correspond to the original description and figure of aedeagus of *Ch. rosti kubanensis*, and, on the other, wholly correspond to the original description of *Ch. fuscicornis*. Therefore, I reduce *Ch. rosti kubanensis* to a synonym of *Ch. fuscicornis*. Contrary to the opinion of WEISE (1892), the lateral furrows at the base of pronotum do not permit to separate *Ch. rosti*, *Ch. fuscicornis*, and *Ch. caspica* from each other; shape and length of these furrows are rather variable. Contrary to the opinion of MEDVEDEV & OKHRIMENKO (1991), the shape of the last segment of maxillary palpi in male does not permit to distinguish these three species. According to the original description (ROUBAL 1912), *Ch. danieli* differs from *Ch. caspica* only in dark brown or olive coloration (questionable distinction), and from *Ch. rosti* in short body (as in *Ch. caspica*!). Therefore, I agree with the opinion of MEDVEDEV & OKHRIMENKO (1991) that *Ch. danieli* is a junior synonym of *Ch. caspica*. WEISE (1892) did not separate *Ch. rosti* from *Ch. fuscicornis* on the basis of elytral punctation. According to LOPATIN (1991), elytral punctures are entirely confused in *Ch. rosti* and more or less regular in *Ch. fuscicornis*. However, I have several males of *Ch. rosti* with elytral puctures partly arranged in rows.

MATERIAL

***Ch. apsilaena* (*fuscicornis*)**: Russia: Krasnodar Krai: Dagomys, foothills, broad-leaved forest, leaf litter, 25.8.1992: 2 males, 27.8.1992: 1 male, A. BIEŃKOWSKI leg.; envir. Dagomys, Bzych, forest, leaf litter, 7.7.1996: 1 male, 1 female, I.V. MELNIK leg.; Sochi, 5.1929: 1 female; Maikop, 10.5.1959: 1 female, D. PANFILOV leg.; Lazarevskoe, 1.7.1985: 2 specimens, A.G. KOVAL leg.

***Ch. caspica***: Georgia: Gagra: 1 male; Abkhazia, Achandara, 29.5.1961: 1 male, O.N. KABAKOV leg.; Russia: Krasnodar Krai: Bambak, 9.6.1911: 1 male, VOLNUKHIN leg.; envir. Maikop, Kishi (Chegs) river, 14.5.1911: 1 male, VOLNUKHIN leg.; Krasnaia Poliana, 7-15.7.: 1 male, KIRITSCHENKO leg.; the same locality, Achishkho ridge, 1500m, 10-15.5.1996: 1 male, A. BRINEV leg.; envir. Tkhach Mount., Afonka river: 1 male; Lagonaki upland, 1200m, on *Hypericum*, 14.6.: 1 male, N.V. OKHRIMENKO leg.; Gelendzhik, Markotkh ridge, under stone, 13.8.1987: 1 male, 1 female, A. BIEŃKOWSKI leg.; envir. Dagomys, Shakhe river near mouth of Azhu river, 4.7.1996: 1 male, 1 female, I.V. MELNIK leg.; 12 km SE Guzeripl, Abago plateau, forest, 1650-1750m, 16.6.1991: 1 male, K. MIKHAILOV leg.; Caucasus, without locality data, 14.10.1884: 1 male.

***Ch. rosti***: Russia: Krasnodar Krai: envir. Krasnaia Poliana, Achishkho ridge, 14.7.1984: 1 male, KULIK leg.; Georgia: Tbilisi („Tiflis"), 18.4.1912: 1 male, N.L. PASTUKHOV leg.; Abkhazia: Cebelda: 1 male, Zolotarev leg.; Bzybskii ridge, 3.4.1960: 1 male, O.N. KABAKOV leg.; Achandara, 29.5.1961: 1 male, O.N. KABAKOV leg.

28. *Ch. blanchei* is recorded from Turkey for the first time.

MATERIAL

***Ch. blanchei***: S. Turkey: Iskanderun, S. of Harbiye, 650 m, 18.6.1997: 1 male, D. KEITH leg.; S. Anatolia: envir. Yailadagi, 600-900 m (Antakya), 2.4.1982: 1 female, HEINZ leg.

29. *Ch. trapezicollis* is recorded from Turkey for the first time.

MATERIAL

***Ch. trapezicollis***: N.-E. Turkey: Yalnizcam Gecidi near Savsat, 1800-2200m, 20-21.6.1999: 1 male, T. LACKNER leg.

30. BECHYNÉ (1952) erroneously considered *Ch. differens* as a subspecies of *Ch. porphyrea*. MEDVEDEV & OKHRIMENKO (1991) treated *Ch. differens* as a junior synonym of *Ch. trapezicollis*. Actually, *Ch. differens* and *Ch. trapezicollis* have identical aedeagus structure (FRANZ 1952, BECHYNÉ 1952, respectively) and are conspecific, but the former is a senior (not junior!) synonym of the latter.

31. KIPPENBERG & DÖBERL (1994) proposed a new subgeneric name *Chrysolina* (*Cyrtochrysolina* KIPPENBERG, 1994: 59) in combination with the specific name *Ch. marcasitica*. The description of this subgenus is included in a paper being in press (Dr. H. KIPPENBERG, personal communication).

32. The original description of *Ch. pterosticha* is extremely brief: "Tota aeneo-purpurea thoracis margine incrassato elytris crebre punctatis" (FISCHER DE WALDHEIM, 1842). Jacobson (1897) mentioned *Ch. pterosticha* as a valid species, Weise (1916) included *Ch. pterosticha* as a valid species in the "Coleopterorum Catalogus", and later nobody cited this name. I found one type specimen in the collection of ZIN. FISCHER DE WALDHEIM (1842) did not note the number of type specimens. So I designate this specimen as a lectotype. Examination of the type specimen shows that it is conspecific with *Ch. pedestris*. Therefore, *Ch. pterosticha* is a new junior synonym of *Ch. pedestris*.

MATERIAL

***Chrysomela pterosticha***: lectotype, female (is designated here) with labels: "*Ch. pterosticha* FR. Sp.n.", "265.", "Sibir Karel", "*pterosticha*", "G. JACOBSON coll.", "Lectotype *Chrysomela pterosticha* FISCHER DE WALDHEIM, 1842. A.

BIEŃKOWSKI design. 1999" [red], "*Chrysolina pedestris* GEBLER, 1823. A. BIEŃKOWSKI det. 1999" ZIN. Additional material: ***Ch. pedestris***: E. Kazakhstan: Kalbinsky ridge, Targyn, 9.7.1949, 1.3.1949, 17.4.1949: 2 males, 2 females, I. TELISHEV leg.; Uljba, 19.7.1906: 1 male, 23.7.1910: 1 female, A. JACOBSON leg.; Zaisan, 1909: 1 male, M. SIJAZOV leg. Russia: Altai Krai: Zmeinogorsk: 1 female.

33. I have not found the type from *Ch. roddi* among the materials of G. JACOBSON's collection (ZIN). Specimens being at my disposal correspond to the original description (JACOBSON 1897) and have a number of characters (including aedeagus structure, Fig. 13) which permit to regard this species as a member of the subgenus *Crositops*: hind wings absent; last segment of maxillary palpus slightly broader than the previous one (male), or similar to the previous one in length and width (female); elytron without humeral callus, with almost entirely confused punctation; pronotum bears narrow convex lateral callus separated from disc by very shallow impression (deepened only near base) covered with numerous large punctures throughout; pygidium bears sharp furrow on entire length; in female, 1st segment of all tarsi bears narrow glabrous stripe in basal 2/3; last abdominal sternite moderately convex, simple.

MATERIAL

***Ch. roddi***: Russia: Samara reg.: Zhiguli Mount., Usolskaja Volozhka river, 25.6.1926: 1 female, DMITRIEV leg. Chelyabinsk reg.: Ilmensky Reserve, 5.5.1958: 1 male, Yu. I. NOVOZHENOV leg.

34. The name *Chrysolina fastuosa fastuosa* ab. *jodasi* BECHYNÉ, 1950 is unavailable. Later, BECHYNÉ (1954) reduced *Chrysomela fastuosa* var. *biroi* CSIKI, 1953 to a synonym of *Dlochrysa fastuosa jodasi*. However, the name *jodasi* is available since 1954 and not 1950 (ICZN, 1999, Art. 45.5.1). Therefore, the name *biroi* CSIKI is a senior synonym of *jodasi* BECHYNÉ.

35. New replacement names for *Chrysomela nigra* REITTER, namely *Ch. cuprina* ab. *nigritula* BECHYNÉ, 1949 and *Ch. geminata* ab. *lugubrina* CSIKI, 1953, are unavailable. BECHYNÉ (1954) synonymized *Ch. cuprina nigritula* with *Ch. geminata lugubrina*. As a result, *nigritula* BECHYNÉ, 1954 is an available subspecific name, while *lugubrina* CSIKI, 1953 is an unavailable name (ICZN, 1999, Art. 11.6, 50 C). The type locality of the subspecies *nigritula* was not indicated by the author.

36. *Ch. aeruginosa* FALDERMANN sensu WEISE, 1887 is another species, but not real *Ch. aeruginosa*. BECHYNÉ (1950) described *Ch. aeruginosa* sensu WEISE as a new species, namely, *Ch. pubitarsis*. The original description is very brief. The author included this species in the subgenus *Allohypericia* and noted that it differed from all other members of the subgenus in question in the tarsi which are wholly pubescent beneath in both sexes. Specimens of *Ch.* (*Hypericia*) *difficilis*

*ussuriensis* being at my disposal wholly correspond to the description of *Ch. aeruginosa* sensu WEISE (1887) and the original description of *Ch. pubitarsis*. I had no possibility to borrow the type of *Ch. pubitarsis*. However, I examined one female, which was determined by Dr. J. BECHYNÉ as *Ch. pubitarsis*. I found this specimen to be conspecific with *Ch. difficilis ussuriensis*. Therefore, I regard *Ch. pubitarsis* as a new junior synonym of *Ch. difficilis ussuriensis*.

MATERIAL

***Ch. difficilis ussuriensis***: China: „Mandschurei Weischache Mai 1938", „*Chrysolina pubitarsis* m. J. BECHYNÉ det., 1950": 1 female. Russia: Primorski Krai: Kamenushka, 17.8.1987: 1 female, I. NETUZHILIN leg.; S. Sikhote Alin, Promyslovka, 7.9.: 1 male, PERELESHINA leg.

37. According to the original description (BECHYNÉ 1952), the subspecies *Ch. nikinoja exgeminata* differs from the nominotypical one in the following characters: "Die Oberseite ... ist metallisch violett, sehr stark glanzend, Korperform mehr langlich. Die Punktierung des Halsschildes ist feiner (nur so stark als auf den Zwischenraumen der Flugeldecken) aber die sekundare (in Reihen gestellte) Elytralpunktierung ist grober als bei der Stammform". I examined the types of both *Ch. n. nikinoja* and *Ch. n. exgeminata* (Fig. 17) and found that they represented the same taxon.

MATERIAL

***Ch. nikinoja nikinoja***: Lectotype, male (is designated here) with labels: "Niki Noja Corea", "Holotipe *Chrysolina nikinoja* m. det. Dr. J. BECHYNÉ 1950", "TYPE" [pink], "Lectotype *Chrysolina nikinoja* BECH., 1950. design. BIEŃKOWSKI, 1999" [red], "*Chrysolina difficilis yezoensis* MATS. (=*nikinoja* BECH.) syn. nov. A. BIEŃKOWSKI det. 1999" NMB.

***Ch. nikinoja exgeminata***: Lectotype (male) is designated here, with labels: "Chikuanshan S. Mandschur", "ex Orig. Samlg. J. BREIT Wien" [pink], "TYPE *Chr. nikinoja* ssp. *exgeminata* m. J. BECHYNÉ det., 1952", "Lectotype *Chrysolina nikinoja exgeminata* BECH., 1952. design. BIEŃKOWSKI, 1999" [red], "*Chrysolina difficilis yezoensis* MATS. (=*nikinoja exgeminata* BECH.) syn. nov. A. BIEŃKOWSKI det. 1999" NMB.

38. I examined the type of *Ch. nikinoja* (Fig. 16) and available specimens of *Ch. difficilis yezoensis* (type of *Ch. yezoensis* studied by TAKIZAWA 1970) and decided that they are conspecific. Therefore, *Ch. nikinoja* is a new junior synonym of *Ch. difficilis yezoensis*.

MATERIAL

***Ch. nikinoja***: see remark 37.

***Ch. difficilis yezoensis***: Korea: Jangang-do, 24.9.-1.10.1991: 1 male; Kjesan, 11.7.1985: 1 female.

39. In 1817 GEBLER described *Chrysomela guttata*. Later (GEBLER 1830) he found this name to be a primary junior homonym of *Ch. guttata* FABRICIUS, 1792 and proposed a new replacement name *Ch. musiva*. However, *Ch. exanthematica* WIEDEMANN, 1821 is the oldest available name for this taxon and a senior synonym of *Ch. musiva* GEBLER, 1830.

40. *Ch. aveyronensis* was described from S. France (BECHYNÉ 1950). I also have specimens from S. and S.-E. Spain at my disposal.

MATERIAL

***Ch. aveyronensis***: S. France: 1 male; S. France: 1 female, DESBROCHERS leg.; Spain: Cape Europe, 11.7.1986: 1 male, MEREGALLI leg.; the same locality, 7.1958: 1 male; Barcelona, 23.8.1985: 1 female, MEREGALLI leg.; Teruel, 23.4.1984: 1 male, DELLA BALTA leg.

41. KASAP (1988) reduced *Ch. halysa halysa*, *Ch. halysa intercalaria*, *Ch. rhodia*, *Ch. orientalis palaestina*, and *Ch. halysa assyrica* to synonyms of *Ch. sahlbergi* on the basis of external morphology and aedeagus structure. Presently, I consider them as separate taxa, because the presence of normal (*Ch. sahlbergi*) or reduced (*Ch. halysa*) hind wings has not been taxonomically revised till now.

MATERIAL

***Ch. sahlbergi***: Iran: 1948: 1 male; Kerman, 5.1951: 1 female, Farahbakhch leg.; Armenia: Echmiadzin Distr., orchard, under stone, 29.10.1987: 1 female, I.V. MELNIK leg.; envir. Vedi, Acasar, 5.5.1997: 2 females, I.V. MELNIK leg.; Russia: N. Caucasus: 25.5.1908: 1 female, I. SCHUKIN leg.

***Ch. halysa***: Georgia: Borzhomi, 10.7.1932: 1 female; Armenia: Nakhichevan, Buzgov, 16.5.1982: 1 female, O. GORBUNOV leg.; Azerbaijan: Agdam, 16.5.1973: 1 male, MORZOEVA leg.

42. MÜLLER (1948) noticed that *Ch. minckwitzi* resembled *Ch*. (*Ovosoma*) vernalis in aedeagus structure. However, later BECHYNÉ (1952) considered *Ch. minckwitzi* as a subspecies of *Ch*. (*Ovostoma*) *atrovirens*. I have not seen any specimens of *Ch*. *atrovirens*. However, the aedeagus (Fig. 19) of the available male of the subspecies *Ch. minckwitzi winneguthi* has the shape which is typical of the subgenus *Ovosoma*, but not *Ovostoma*.

MATERIAL

***Ch. minckwitzi winneguthi***: Albania: Ipek, Koprivnik Mount., 2200-2300 m, 22.7.1917: 1 male, 2 females, CSIKI leg.

43. *Ch. numida* was known before from Morocco and Algeria (CODINA PADILLA 1961). I found one specimen from Tunisia, which is similar to the available specimens from Algeria.

MATERIAL

***Ch. numida***: Tunisia: Kairouan, 1907: 1 female, Santhi leg.; Algeria: 2 males, 4 females.

44. *Ch. pardoi* was originally described from N. Morocco (CODINA PADILLA 1961). I found one specimen from Tunisia, which is similar to the available male from Morocco.

MATERIAL

***Ch. pardoi***: N. Tunisia: Ain Draham, 23-26.4.1997: 1 male, J. MERTLIK leg.; Morocco: 1 male.

45. *Ch. palmyrensis* was originally included (BECHYNÉ 1955) in the subgenus *Diachalcoidea*. GRUEV & TOMOV (1979) examined type specimens of *Ch. palmyrensis* and were the first to provide a figure of the aedeagus, which somewhat differs from those of other members of *Diachalcoidea*. Specimens of *Ch. palmyrensis palmyrensis* and *Ch. palmyrensis assurensis* being at my disposal correspond to the diagnosis of the subgenus *Paradiachalcoidea* DACCORDI, 1978 and are very close to *Ch. silvanae* and *Ch. limbatella* in their aedeagus structure. Therefore, I transfer *Ch. palmyrensis* (including subspecies *assurensis*) to the subgenus *Paradiachalcoidea*. Subspecies *Ch. palmyrensis assurensis* is recorded from Iran for the first time (Fig. 26).

MATERIAL

***Ch. palmyrensis palmyrensis***: Israel: envir. Jericho, mouth of Jordan river, 21.3.1897: 1 male, 29.3.1897: 1 female, DAVYDOV leg.

***Ch. palmyrensis assurensis***: Iran: Mehran, 5.1948: 1 male, SARKISSIAN leg.; Khuzestan, spring Cheshme-Rogan, 1.1.1904: 1 female, N. ZARUDNYI leg.; Iran (without locality data): 5.4.1904: 1 male, 1 female, 24.3.1904: 2 males, ZARUDNYI leg. Iraq: Erbil, 24.4.1964: 1 male, A. RIEDEL leg.; "Askikalak nad rz. Wielki Zab", 22-24.4.1961: 1 female, A. RIEDEL leg.

46. JACOBSON established the subgenus *Crosita* (*Pezocrosita*) with the new species *C. kuznetzowi* in a paper included in "Horae societatis Entomologicae Rossicae" for the year 1900, but actually published two years later, in 1902. JACOBSON (1901) described the second species, belonging to the same subgenus, namely *C.* (*Pezocrosita*) *sahlbergiana*. The description of *C. sahlbergiana* was published earlier than that of *C. kuznetzowi*. Therefore, *C. sahlbergiana* should be treated as type species of the subgenus *Pezocrosita*. *Pezocrosita* JACOBSON,

1901 is an availble name, because it was given in combination with available specific name (ICZN, 1999, 12.2.5). The subgenus *Pezocrosita* is very heterogenous. I propose to divide it in nine species groups (see Checklist, a review in preparation).

47. LOPATIN (1990) examined the type (female) of *Ch. cyanopurpurea* and included this species in the subgenus *Caudatochrysa*. I studied the mentioned type specimen and 2 more females (including one from the type locality). *Ch. cyanopurpurea* differs from all other species of the subgenus *Caudatochrysa* in the absence of ovipositor, which is formed by modified pygidium and last abdominal sternum in female of true members of *Caudatochrysa*. Moreover, *Ch. cyanopurpurea* is known only from N.-W. China, which is far to the west from the area of *Caudatochrysa*. I transfer *Ch. cyanopurpurea* to the subgenus *Pezocrosita* and place it close to *Ch. petrenkoi*, *Ch. oschanini*, *Ch. juldusana*, *Ch. ketmenica*, and *Ch. koenigi* on the basis of the following combination of characters: hind wings absent; body unicolorous, dark blue, dull; antenna inserted closer to clypeus than to eye; elytron devoid of humeral callus, covered with minute punctures, which are entirely confused or partly arranged in abbreviated undulating rows in basal half; the last segment of maxillary palpus narrow, oval, truncate, similar to the preceding one in length and width; tarsi wholly pubescent beneath except first segment of hind tarsus which is glabrous at the base; pronotum bears convex lateral callus separated from disc by very shallow broad impression at entire length, lateral impression covered with moderately large punctures; pygidium bears distinct longitudinal furrow on entire length.

MATERIAL

***Ch. cyanopurpurea***: Type, female: „Kuldsha". Additional material: N.-W. China: Kuldsha: 1 female; river Kash, tributary of river Ili, 1878: 1 female, H. REGEL leg.

48. Unlike most members of *Chrysolina*, *Ch. juldusana* and *Ch. oschanini* have elytral epipleura ciliate from the apex to the level of mid coxae, and *Ch. ketmenica* - to the level of half length of the first abdominal sternite.

MATERIAL

***Ch. juldusana***: Kyrghyzstan: Tersei Ala Tau, upper reaches of Karkara river, 22.5.1968: 1 male, 1 female, K. IBRAIMOVA leg.; envir. Issyk Kul lake, 22.5.1901: 1 male, 2 females, RIKBEIL leg.; envir. Issyk Kul lake, Turgen Ak Suu, 27.7.1961: 1 female, SOROKINA leg.; Kazakhstan: Terskei Ala Tau, 2700-3100m, 16.6.1990: 1 male, 1 female, E. KOMAROV leg.; Ketmen ridge, envir. B. Aksu, 2900m, 10.6.1991: 1 male, E. KOMAROV leg.

***Ch. ketmenica***: S.-E. Kazakhstan: Ketmen ridge, envir. B. Aksu, 2900m, 10.6.1991: 1 male, 2 females, E. KOMAROV leg.

***Ch. oschanini***: Kyrghyzstan: Karkara river, 1-2.6.1910: 1 male, RIKBEIL leg.; envir. Issyk Kul lake, 22.5.1901: 1 male, 1 female, SUVOROVA leg.; Terskei Ala Tau, 2650m, 1.7.1988: 1 female, YANISHEV leg.; S.-E. Kazakhstan: Ketmen ridge, 2600m, 14.6.1991: 1 male, 1 female, DOLIN leg.; N.-W. China: Kuldzha: 1 male.

49. *Ch. koenigi* is recorded from Kyrghyzstan for the first time (Fig. 5).

MATERIAL

***Ch. koenigi***: Kyrghyzstan: N.E. Turkestanskii Ridge, 4 km NW Raigorodskogo glacier, 4 km WNW Archa-Basha, 3500 m, 14.7.1995: 1 male, E. KOMAROV leg.

50. Besides a large series of *Ch. kiritschenkoi* from the type locality (Kyrghyzstan: Kirgizskii Alatau, pass Shamsi), I examined 2 males and 5 females from Kirgizskii Alatau: Barsakelmes gorge, 3300 m, under stones, 21.6.1989, A. PRIKHOD'KO leg.

51. Up to now, only five type specimens of *Ch. mohri* were known (LOPATIN 1970b). They were labelled as follows: "Ala-Tau. Matthiessen". Probably, it means Zailijskii Ala Tau (Mr. D.A. MIL'KO, personal communication). I have one more specimen at my disposal: Kazakhstan: Cholmon-Ata, 5.7.1984: 1 male, DANILEVSKY leg.

52. Voronova (1985) supposed that *Ch. rufilabris* group occupied an isolated position within the subgenus *Pezocrosita*. I examined specimens of all the species and subspecies belonging to this species group. The aedeagus structure (Fig. 4) indicates that *Ch.* (*rufilabris*) group is close to the subgenus *Chalcoidea*, and, probably, occupies an intermediate position between *Chalcoidea* and *Pezocrosita*. However, I include this group in the subgenus *Pezocrosita* on the basis of the absence of developed hind wings.

MATERIAL

***Ch. brunnicornis brunnicornis***: Mongolia: Bajan-Ulegeisky aimak, 50 km SE Altai, 2850 m, 24.7.1976: 1 male, L. MEDVEDEV, N. VORONOVA leg.

***Ch. brunnicornis bermani***: Russia: Chita reg.: Kodarskii Ridge, 50 km NW Chara, 2500 m: 1 male, 40 km NW Chara, 1500 m: 1 female, 16-25.7.1996, A.E. BRINEV leg.

***Ch. brunnicornis vrangeliani***: Wrangel Isl.: 5.6.-15.7.1993: 1 male, 1 female; 1984: 1 male, 1 female; 19.6.1989: 3 spec., 15.-25.6.1989: 1 male, 1 female, O. KHRULEVA leg.

***Ch. lopatini***: Russia: Irkutsk reg.: Olkhonsky Distr., Isl. Ugungoi, 16.7.1982: 2 males, 2 females, E. SAMODERZHENKOV leg. Altai: Ust'Kan, 1000-1200 m, 25-26.7.1927 and 1000-1100 m, 7-10.8.1927, N. GORBUNOV leg.

***Ch. pusa***: Mongolia: Ulan-Erig, 25.7.1913: 1 male, YURGANOVA leg.; N.-W. Mongolia: 1 male, POTANIN leg.; Russia: Transbaikalia: Yablonovy Range, 25.5.1898: 1 male, G. SUVOROV leg.

***Ch. rufilabris***: Russia: Transbaikalia: Verkhneudinsk, 7.7.1909: 1 male, 1 female, MATUSEVICH leg.; "Dauria": 1 male, 1 female, F. SAHLBERG & J. SAHLBERG leg.

***Ch. sajanica***: Russia: Tuva: Iki-Ottuk, 5.-6.1918: 1 male, A. ERMOLAEV leg.

53. Up to now, the subspecies *Ch. brunnicornis bermani* was known only from Yakutia. I have also specimens from Chita reg.

MATERIAL
See remark 52.

54. Besides the specimens of *Ch. lopatini* from Irkutsk reg., I examined two males from Altai. *Ch. lopatini* is recorded from Altai for the first time.

MATERIAL
see remark 52.

55. *Chrysomela poretzkyi* was described on the basis of one female (JACOBSON 1897) from S. Ural. I did not succeed in finding the type among the materials from Dr. G.G. JACOBSON's collection (ZIN). However, I examined four males and 11 females of *Ch. subcostata* from S. Ural (Bolshoi Iremel Mount.). All these males and seven females differ from the typical form of *Ch. subcostata* in confused or irregular 5th-7th elytral puncture rows (or some of them) and correspond to the original description of *Ch. poretzkyi*. Therefore, *Ch. poretzkyi* should be treated as a subspecies *Ch. subcostata poretzkyi*.

56. The type locality of *Ch. paradoxa* is not indicated in the original description (MEDVEDEV 1999). This taxon is based on a single specimen from the collection of the former Martianov's Museum (Minusinsk). Probably, this specimen was collected in the Sayan Mountains.

57. The subgeneric name *Chrysomela* (*Minckia*) was originally used (STRAND 1935) as a replacement name for *Hoplosoma* MOTSCHULSKY. However, earlier SAHLBERG (1913) proposed a subgeneric name *Chrysomela* (*Sulcicollis*) in combination with the available name *Ch. chalcites*. Therefore, *Sulcicollis* SAHLBERG, 1913 is a senior subjective synonym of *Minckia* STRAND, 1935.

58. LOPATIN (1977) reduced *Ch. dzhungarica* to a synonym of *Ch. alatavica*. I compared the holotype (female) of *Ch. dzhungarica* with the types (lectotype designated below) and additional specimens of *Ch. alatavica* and concluded that

*Ch. dzhungarica* was a separate species. The most distinct difference between the mentioned taxa is the shape of the pronotal lateral calli which are narrower in *Ch. dzhungarica* than in *Ch. alatavica*. Besides that, 5th-6th and 7th-8th puncture rows of elytron are slightly paired in *Ch. dzhungarica*, all puncture rows are placed at equal distances from each other in *Ch. alatavica*. The intervals between elytral puncture rows are weakly convex in *Ch. dzhungarica* (as in *Ch. tianshanica*) and rather convex in *Ch. alatavica*. *Ch. dzhungarica* differs from *Ch. tianshanica* (lectotype is designated below) in the shape of pronotal lateral impressions which are deeply incised in basal half, moderately deep anteriorly, covered with numerous large punctures (partly coalescent near base) in *Ch. dzhungarica*, and deeply incised basally as well as apically, but very shallow, covered with sparse, coalescent, hardly visible punctures at middle in *Ch. tianshanica*.

MATERIAL

***Ch. alatavica***: lectotype, female (is designated here) with labels: golden circle, "Dzharkentsk. Chelokai V.09. Riukbeil", "*Chr. alatavica* typ JAC G. JACOBSON det.", "lectotype *Chrysomela alatavica* JACOBSON. design. BIEŃKOWSKI 1998" [red], "*Chrysolina alatavica* (JACOBSON) det. A. BIEŃKOWSKI 1998" ZIN; paralectotype, female with labels: "Dzharkentsk. r. Ili V.09. Riukbeil", "*Chr. alatavica* typ JAC G. JACOBSON det." ZIN; paralectotype, female with labels: "Dsharkent Heptapotamia (SUVOROW) IV.906", "*Chrys. alatavica* typ. JAC. G. JACOBSON det." ZIN; both paralectotypes with my "paralectotype" and "determination" labels similar to those under lectotype.

***Ch. dzhungarica***: holotype, female with labels: "fl. Borotala Dshungaria occ. Regel VIII. 78", "99882", "*Chr. dzungarica* typ JAC. G. JACOBSON det.", "Holotype *Chrysomela dzhungarica* JACOBSON" [red], "*Chrysolina dzhungarica* (JACOBSON) det. A. BIEŃKOWSKI, 1998" ZIN.

***Ch. tianshanica***: lectotype, female (is designated here) with labels: "upper reaches r. Tekesa 11.VIII.07 Ja.I. KOROLKOV", "*Chr. tianschanic...* typ JAC. G. JACOBSON det.", "lectotype *Chrysomela tianshanica* JACOBSON. design. BIEŃKOWSKI, 1998" [red], "*Chrysolina tianshanica* (JACOBSON) det. A. BIEŃKOWSKI, 1998" ZIN.

59. *Ch. imperfecta* was first recorded from the Caucasus ("Transcaucasia") by OKHRIMENKO (1990). I have at my disposal material from the various localities in the Caucasus (Fig. 24).

MATERIAL

Armenia: envir. Vedi, 2 km E from Gorovan, 27.6.1997: 1 spec., I. MELNIK leg. Azerbaijan: Baku, Volchii Vorota, under stones, 22.7.1981: 3 males, 1 female, E.V. SAMODERZHENKOV leg.; Kirovabad, 4.6.1953: 1 female. Georgia: Tbilisi, 24.5.1980: 2 males, 1 female; Karaja, 29.4.1902: 1 male, 1 female, N. SAKHAROV leg.; Borzhomi, 29.4.1909: 1 male, 14.4.1910: 1 female, WINOGRADOW leg.; envir. Tbilisi, Lisi lake, 2-3.3.1894: 2 males, SAPUTIN leg. Russia: Chechnia: Grozny, 20.6.1913: 1 male, N. PLAVILSTSHIKOV leg.

60. The following characters permit me to include *Ch. koktumensis* in the subgenus *Taeniosticha*: body black with rufous elytra, 4th, 6th, and 8th intervals of elytral puncture rows partly darkened, pronotum with convex lateral calli, which are separated from the disc on entire length (lateral impressions resemble those in *Ch*. (*Taeniosticha*) *alatavica*), elytra bear regular puncture rows, or 5th and 6th rows partly confused; in female, 1st tarsal segment bears glabrous stripe at the base beneath; in male, aedeagus (Fig. 18) is strongly curved, broadly rounded at apex, bearing two small denticles before apex at ventral side, flagellum is narrow and long. The structure of aedeagus is similar to that of *Ch*. (*T*.) *tianshanica* and *Ch*. (*T*.) *kuldzhensis*.

MATERIAL

***Ch. koktumensis***: Dzhungarian Ala Tau, Sandyktas Mount., 14.8.1991: 1 male, 1 female, I.K. LOPATIN leg.

61. *Chrysomela diluta* KRYNICKI was originally described from Ukraine (environs of Kharkov) (KRYNICKI 1832). WEISE (1916) disregarded this fact and treated *Ch. diluta* KRYNICKI as a junior synonym of *Ch. aegyptiaca* OLIVIER, which is distributed in the Near East and North Africa. The original description of *Ch. diluta* is very brief: "Nigra, elytris obscure testaceis profunde striato-punctatis, interstitiis partius punctulatis". Among the species of *Chrysolina* distributed in Ukraine, *Ch. reitteri saxonica* corresponds to this diagnosis and should be considered as a senior synonym of *Ch. diluta* KRYNICKI. Moreover, the name *diluta* KRYNICKI, 1832 is a junior homonym of *diluta* GERMAR, 1824. The name *diluta* KRYNICKI should not be replaced, because this name is a junior synonym.

62. *Ch. taygetana* was originally described (BECHYNÉ 1952) on the basis of the female specimens only and included in the subgenus *Taeniosticha*. According to the original description, this species differs from all other members of *Taeniosticha* in the structure of female tarsi, which are entirely pubescent, without a trace of glabrous stripe beneath. However, in other respects, including aedeagus structure (Fig. 27), this species is close to other members of *Taeniosticha*.

MATERIAL

***Ch. taygetana***: Greece: Taigeto Mount., 2200 m, 8.8.1980: 1 male, GUGLIELMI leg.

63. *Ch. dohertyi* was included in the subgenus *Hypericia* by DACCORDI (1980). However, this species has a number of characters, which make it impossible to consider it as a member of this subgenus: pronotal lateral callus separated from disk by wide impression covered with large partly coalescent punctures basally, but not deep narrow furrow as typical of *Hypericia*; aedeagus conspicuous (Fig. 21), flat, with narrow long apical projection, flagellum very narrow,

whip-shaped (in members of *Hypericia*, the aedeagus is rounded in cross-section, without long apical projection, flagellum is thicker, tube-shaped).

MATERIAL

***Ch. dohertyi***: Vietnam: envir. Shapa, mountains, 1600-2000 m, 25.5.1963: 1 male, O.N. KABAKOV leg.; China: Yunnan, Diaolin Nat. Res., 6.1993: 1 male, 2 females, JENDEK & SAUSA leg.; Yunnan, 26.07N, 103.14E, Dongchuam, 1500-3200m, 28.6.-3.7.1994: 1 male, Vit KUBAN leg.

64. *Ch. kinabaluensis* was originally included (BECHYNÉ 1952) in the subgenus *Pierryvettia* and compared with *Ch. sumatrensis*. I examined specimens from the type locality and additional material, which correspond to the original description of *Ch. kinabaluensis*. This species really bears a superficial resemblance to *Ch. sumatrensis*. However, it has several characters, which do not permit to regard *Ch. kinabaluensis* as a member of the subgenus *Pierryvettia*: elytral epipleura oblique, visible on entire length in lateral view, pronotum bears convex lateral calli separated on entire length by distinct impressions covered with moderately large punctures. Moreover, the aedeagus of *Ch. kinabaluensis* (Fig. 30) differs strongly from those of all other *Pierryvettia* members.

MATERIAL

***Ch. kinabaluensis***: Kalimantan Isl.: Kinabalu Mountains: 4 males, 6 females; Sabah, Gunung Emas, Crocker Mountains, 15-27.4.1993: 1 male, 2 females, JENIS & STRBA leg.; Sabah, Gunung Emas, 21.3.-20.4.1996: 2 females, J. KADLEC leg.; Sabah, Sandakan, 8-12.4.1996: 1 male, J. LINDA leg.

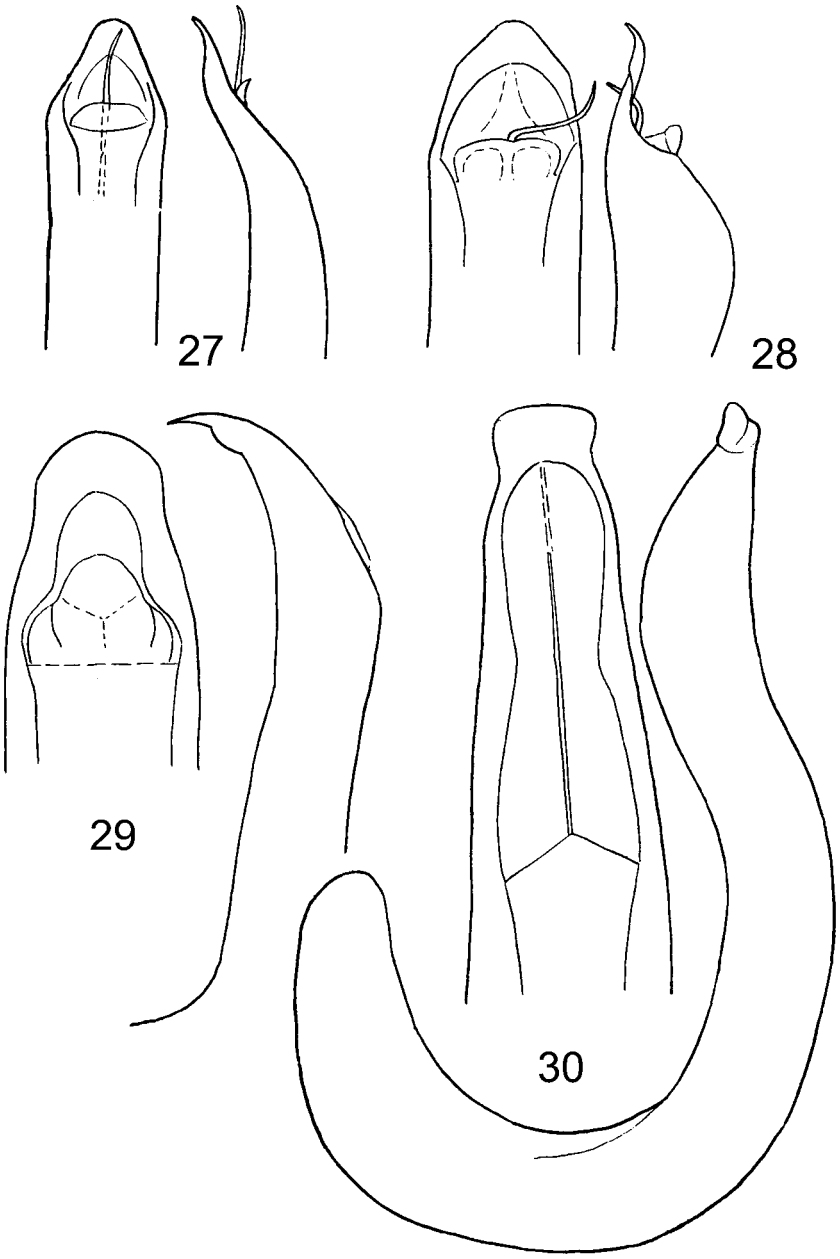
***Ch. sumatrensis***: Sumatra Isl.: Padang: 1 female.

65. BECHYNÉ (1950) included *Ch. villiersi* in the subgenus *Hypericia*, BOURDONNE & DOGUET (1991) considered it as a member of the subgenus *Chalcoidea*. I examined the type specimen of the subspecies *Ch. villiersi ruficornis*. In this taxon, pronotum bears deep narrow basal furrows, and elytra have regular double puncture rows). In its aedeagus structure (Fig. 29), *Ch. villiersi* differs strongly from all other *Chalcoidea* members. Therefore, I think that it is more justified to consider *Ch. villiersi* as a member of the subgenus *Hypericia*.

MATERIAL

***Ch. villiersi ruficornis***: paratype, male with labels: „G'Atlas C Maroc", „Paratipo", „*Chrysomela villiersi* PEYERH. s.sp. ruficornis mihi KOCHER det.", „*Chrysol*. (*Hyper*.) *villiersi* ssp. *ruficornis* KOCHER. L. KOCHER det 50" LC.

66. BECHYNÉ (1952) and MEDVEDEV (1992) considered *Ch. seriepunctata* as a member of the subgenus *Allohypericia*. However, this species has quite a different type of the aedeagus structure (Fig. 20): it is flat in cross-section, transversely




27-30. Aedeagus: 27 - *Ch. taygetana*, 28 - *Ch. cilissa* (holotype), 29 - *Ch. villiersi ruficornis* (paratype), 30 - *Ch. kinabaluensis*

truncate and appendiculate at apex, twice curved in lateral view, and resembles that of *Ch*. (*Chalcoidea*) *tesari* or *Ch*. (*Pezocrosita*) *pusa*, but never occurs in the members of the subgenus *Allohypericia*. The last abdominal sternum in male of *Ch*. *seriepunctata* bears a semicircular apical impression, like in some species of the subgenus *Pleurosticha*, but never occurs in the species of the subgenus *Allohypericia*. Therefore, I can not assign *Ch*. *seriepunctata* to any subgenus described before.

MATERIAL

***Ch. seriepunctata***: Amur reg.: between Malaja Pera and Bolshoj Ergel rivers, 6.6.1958: 1 male; Primorski Krai: environs of Kamenushka, 2.8.1989: 1 female, S. KHVYLIA leg.; Shkotovo, Maikhe, 3.6.1927: 1 female, REZVOJ leg.

67. KASAP (1988) studied the type specimen of *Ch. bruneli*, redescribed this species and figured the aedeagus. This species has coloration which is rare within *Chrysolina* and resembles that of *Ch. koktumensis* and *Ch. nigrovittata*: "Elytra yellowish red with black longitudinal bands one along the suture, other along the middle of each elytron, rest of the body shining black"(KASAP 1988). Unfortunately, KASAP (1988) did not describe the shape of maxillary palpus, position of antennal insertion, shape of prothoracic hypomeron, position of elytral epipleuron, structure of tarsi, pygidium, and the last abdominal sternite, presence or absence of humeral calli and hind wings. Therefore, it is impossible to solve the question of the systematic position of this species.

68. *Ch. indica* has metasternum not extending forward, with anterior border unmarginate at middle. Such a structure of metasternum is present in allied Asian genera, namely, *Humba* CHEN, 1934, *Sphaerolina* BALY, 1871, and *Ambrostoma* MOTSCHULSKY, 1860, and in an African genus *Sphaeratrix* GISTEL, 1848. On the other hand, wholly margined metasternum is typical of *Chrysolina*. Within this large genus, only three African species, namely, *Ch. superba*, *Ch. ambrostomoides* (both are close to Mediterranean *Ch. americana*), and *Ch. beatricis* (unknown to me) have unmargined metasternum. The structure of prosternum in *Ch. indica* (broadened backwards, with deep emargination at apex) looks like that of members of an Asian genus *Ambrostoma* and Australian genus *Promechus* BOISDUVAL, 1835 and strongly differs from that of other *Chrysolina* members. BECHYNÉ (1950) designated *Ch. indica* as the type species of the subgenus *Timarchomima* BECHYNÉ, 1950: 65. I consider *Timarchomima* to be a monotypic genus within the subtribe *Chrysolinina*. Besides, I was able to examine some other former members of *Timarchomima*, namely, *Ch. clavareaui* and *Ch. templetoni*. The shape of prosternum and metasternum in these species is typical of *Chrysolina*. *Ch. templetoni* was designated by BECHYNÉ, 1950 as the type species of the subgenus *Timarcholina*, so the latter name should be treated as a valid subgeneric name.

MATERIAL

***Timarchomima indica***: India: 1 male.

***Ch. clavareaui***: S. India: Anamalai Hills, Cinohona, 05.1968: 1 male, 1 female.

***Ch. templetoni***: Sri Lanka: 1 male.

***Humba cyanicornis***: India: Sikkim: 1 spec.; N. Vietnam: Mauson Mountain: 2 spec.

***Sphaerolina rajah***: India: 1 spec.

***S. templetoni***: 1 spec. without locality data.

***Sphaeratrix latifrons***: Ethiopia: 6 spec.

***Promechus pulcher***: Isl. Aru, Wamma Dobbo: 1 spec.

69. The name *Ch. ogloblini* MIKHAILOV, 2000 should be replaced by the author owing to the secondary homonymy with *Chrysomela ogloblini* TER-MINASIAN, 1950.

70. The name *plumbeonigra* REITTER, 1913: 114 is unavailable because it was originally proposed for an aberration. Later, BECHYNÉ (1950) used this name for a variety. Therefore, the name *plumbeonigra* BECHYNÉ, 1950: 115 is available (ICZN, 1999, Art. 45.5.1).

## CHECKLIST OF CHRYSOLINA

### ***Chrysolina* Motschulsky, 1860: 210**

(*Chrysomela* auct. nec Linnaeus, 1758: 368)
(*Oreina* Monros et Bechyné, 1956: 1129 partim)

Type species: *Chrysomela staphylaea* Linnaeus, 1758 by the original designation.

### **Subgenus *Allochrysolina* Bechyné, 1950: 133**

Type species: *Chrysomela fuliginosa* Olivier, by the original designation.

| | |
|---|---|
| ***confossa* (Fairmaire, 1865: 76)** | Algeria |
| (*dorsalis* Weise, 1884: 395) | |
| (*semiopaca* Fairmaire, 1873: 357) | |
| ***fuliginosa* (Olivier, 1807: 514)** | |
| ***s. str.** | S. France, N.-E. Spain |
| (*coerulea* Gmelin, 1790: 1687) ? | |
| (*opaca* Suffrian, 1853: 124) | |
| (*violacea* Goeze, 1777: 301) ? | |
| (*violaceocoerulea* Fourcroy, 1785: 106) ? | |
| ***ssp. *coriacea* (Suffrian, 1851: 59)** | C., S. Spain, Portugal |
| (*rugipennis* Harold, 1875: 140) | |
| **ssp. *espanoli* Bechyné, 1950: 134** | Spain |
| ***ssp. *galii* (Weise, 1884: 394)** | E., C. France, Germany |
| (*molluginis* Suffrian, 1851: 57 nec Brahm, 1790: 226) | |
| (*nigrita* Fabricius, 1792: 309) ? | |
| **ssp. *gendreaui* Bechyné, 1949: 55** | W. France |
| **ssp. *microsticha* Bechyné, 1949: 54** | N. Italy |

***lepida* (OLIVIER, 1807: 522)**
***s. str.** — S. Europe

***ssp. *gastoni* (FAIRMAIRE, 1875: 538)** — N. Africa

(*gastonis* BECHYNÉ, 1949: 50, lapsus calami)

***opacicollis* (FAIRMAIRE, 1865: 77)** — Morocco

## Subgenus *Allohypericia* BECHYNÉ, 1950: 159

Type species: *Chrysomela lobicollis* FAIRMAIRE [*aeruginosa poricollis* MOTSCHULSKY], by the original designation.

***aeruginosa* (FALDERMANN, 1835: 440)**
***s. str.** — Kazakhstan, Siberia, Far East, Mongolia (steppes), N.-W. China

(*dimidiata* MÉNÉTRIÉS, 1836: 181)
(*distans* CSIKI, 1901: 116)
(*instructa* MOTSCHULSKY, 1860: 228)
(*regularis* MOTSCHULSKY, 1860: 228)
(*tarda* MOTSCHULSKY, 1860: 228)

***ssp. *alpina* L. MEDVEDEV, 1980: 317** — S.-W. Mongolia (highlands)

**ssp. *centralasiae* (LOPATIN, 1970: 253)** — S., W. Mongolia (deserts), N. China

**ssp. *chingana* BECHYNÉ, 1952: 382** — China (Khingan)

**ssp. *muralis* (CSIKI, 1901: 116)** — China (Khingan)

**ssp. *poricollis* (MOTSCHULSKY, 1860: 228)** — N.-E. China

(*lobicollis* FAIRMAIRE, 1887: 331) **Syn. nov**. [remark 1]
(*mandarina* ACHARD, 1922: 16)

**ssp. *sibirica* WEISE, 1887: 177** — Far East

***arctica* L. MEDVEDEV, 1980: 93** — Wrangel Isl.

| | |
|---|---|
| ***auripennis* (SAY, 1824: 452)** [remark 2] | N. America |
| ***basilaris* (SAY, 1824: 451)** | Canada, USA |
| (*montivagans* LECONTE, 1878: 463)<br>(*subseriata* LECONTE, 1860: 321 nec SUFFRIAN, 1851: 80) | |
| ****campestris* (WEISE, 1912: 84)** | Siberia, Mongolia |
| ***cribraria* (ROGERS, 1856: 36)** | S. USA |
| ****cyanea* (SCHAEFFER, 1934: 479)** | W., S. USA |
| (*schaefferi* BROWN, 1962: 60) | |
| ***inornata* (ROGERS, 1856: 36)** | Florida |
| (*subopaca* ROGERS, 1856: 36)<br>(*opacipennis* ROGERS, 1856: 36) ? | |
| ***koltzei* (WEISE, 1887: 179)** | |
| ****s. str.***<br>(*daurica* HEYDEN, 1885: 304 nec GEBLER, 1832: 73) | E. Siberia |
| ***ssp. *brunneipennis* (MATSUMURA, 1911: 141)** | Sakhalin |
| ***ssp. *lamii* TAKIZAWA, 1970: 118** | Primorski Krai, Kurile Is., Hokkaido |
| ***nyalamana* CHEN et WANG, 1981: 512** | China (Xizang) |
| ****peninsularis* BECHYNÉ, 1952: 382** [remark 3] | Korea, S. Primorski Krai |
| ***perforata* (GEBLER, 1830: 216)** | |
| ****s. str.***<br>(*turczaninoffi* HAROLD, 1875: 176)<br>(*variolosa* MOTSCHULSKY, 1854: 40 nec PETAGNA, 1819: 19) | W. Siberia, Yakutia, Kyrghyzstan, Kazakhstan, Mongolia, N. China |
| ***ssp. *changaiensis* L. MEDVEDEV, 1980: 318** | W. Mongolia, (Khangai) |

| | |
|---|---|
| ***ssp. *pallidipes* L. MEDVEDEV, 1980: 318** | S.-W. Mongolia |
| **ssp. *simillima* (MOHR, 1966: 96)** | N. Mongolia, Transbaikalia, Buryat |
| **ssp. *tolbensis* L. MEDVEDEV, 1980: 318** | N.-W. Mongolia |
| ****purpurata* (FALDERMANN, 1833: 70)** | Kazakhstan, S. Sibiria, Mongolia |
| ***stalii* (BALY, 1862: 95)** | N. China |
| (*micans* JACOBY, 1893: 105) | |
| ***zangana* CHEN et WANG, 1981: 512** | China (Xizang) |

**Subgenus *Altailina* MIKHAILOV, 2000: 133**

Type species: *Chrysolina dudkoi* MIKHAILOV, by the original designation.

| | |
|---|---|
| ***dudkoi* MIKHAILOV, 2000: 134** | |
| ***s. str.*** | E. Kazakhstan |
| **ssp. *ivanovskiana* MIKHAILOV, 2000: 136** | E. Kazakhstan |
| ***ogloblini* MIKHAILOV, 2000: 137** | W. Altai |
| (nec TER-MINASIAN, 1950: 131) [remark 69] | |

**Subgenus *Anopachys* MOTSCHULSKY, 1860: 202**

Type species: *Chrysomela asclepiadis* VILLA, by the original designation.

| | |
|---|---|
| ***aurichalcea* (GEBLER, 1825: 39)** | |
| ****s. str.*** | E. Palaearctic, Vietnam, Laos, Taiwan |
| (*amethystina* KOLBE, 1886: 228) | |
| (*collaris* WEISE, 1916: 59) | |
| (*cupraria* KOLBE, 1886: 229) | |
| (*elevata* SUFFRIAN, 1851: 189) | |
| (*fokiensis* BECHYNÉ, 1950: 147) | |

| | |
|---|---|
| (*gibbipennis* FALDERMANN, 1835: 105)<br>(*kwanghsiensis* BECHYNÉ, 1950: 147)<br>(*nigricans* JACOBSON, 1902: 100)<br>(*omisiensis* BECHYNÉ, 1950: 147)<br>(*pekinensis* FAIRMAIRE, 1887: 331)<br>(*recticollis* WEISE, 1887: 182 nec MOTSCHULSKY, 1860: 225)<br>(*vagesplendens* BECHYNÉ, 1950: 148)<br>(*violaceicollis* MOTSCHULSKY, 1861: 21)<br>(*wallacei* BALY, 1862: 21)<br>(*yunnanica* BECHYNÉ, 1950: 148) | |
| ***ssp. *asclepiadis* (VILLA, 1833: 36)**<br>(*thurntaxisi* SCHATZMAYR, 1927: 151) | W. Alps, Lombardy, Adriatic coast |
| ***ssp. *bohemica* (MÜLLER, 1948: 95)**<br>(*problematica* KASZAB, 1962: 54 nec VOGEL, 1871: 11)<br>(*viridisplendens* BECHYNÉ, 1958: 91) | C. Europe, Ukraine |
| ******eurina* **(FRIVALDSZKY, 1883: 17)** [remark 4]<br>(*perplexa* BREIT, 1920: 86) | Austria, Rumania, Czech Rep., Slovakia, Russia (Moscow reg.) [remark 4] |
| ******gensanensis* **(WEISE, 1900: 282)** | E. China, Korea |
| ******lineella* **(WEISE, 1887: 182)** | Far East |
| ******lineigera* **(JACOBSON, 1901: 127)**<br>(*watanabei* TAKIZAWA, 1970: 121) | Far East, N.-E. China, Sakhalin, Hokkaido |
| ******neglecta* **BIEŃKOWSKI, 1998: 133** | Khabarovsk Krai, Primorski Krai |
| ******pala* **BIEŃKOWSKI, 1998: 135** | Primorski Krai |
| ******quadrangulata* **(MOTSCHULSKY, 1860: 226)**<br>(*linaeides* WEISE, 1896: 80) | E. Siberia, Far East, N. C. Mongolia |

(*linoides* L. MEDVEDEV et AMMOSOV, 1978: 119, lapsus calami)
(*omoka* JACOBSON, 1924: 83)

***relucens* (ROSENHAUER, 1847: 62)** — Alps, White Sea shore, Urals, Siberia, Far East

***schatzmayri* (MÜLLER, 1916: 96)** — Gulf of Venice

**Subgenus *Apterosoma* MOTSCHULSKY, 1860: 23**

(*Caudatochrysa* BECHYNÉ, 1950: 149, type species: *Apterosoma angusticollis* MOTSCHULSKY, by original designation) **Syn. nov.**

Type species: *Apterosoma angusticollis* MOTSCHULSKY, by themonotypy.

***aino* TAKIZAWA, 1970: 117** — Japan (Hokkaido)

***angusticollis* (MOTSCHULSKY, 1860: 23)** — Far East, Japan, N.-E. China

(*japana* BALY, 1874: 171)

***porosirensis* TAKIZAWA, 1970: 120** — Japan (Hokkaido)

(*porosinensis* BOURDONNE et DOGUET, 1991: 156, lapsus calami)

**Subgenus *Arctolina* KONTKANEN, 1959: 31 [remark 5]**

Type species: *Chrysomela birulai* JACOBSON [*subsulcata* MANNERHEIM], by the original designation.

***ballioni* (LOPATIN, 1968: 549)** — Kazakhstan

***boeberi* (HAROLD, 1874: 3415)** — Kamchatka, Okhotsk Sea shore, Chukot Pen.

(*magniceps* SAHLBERG, 1887: 38)
(*sulcata* GERMAR, 1824: 589 nec GEBLER, 1823: 123)

***bungei* (JACOBSON, 1910: 62)** — Arctic Asia

| | |
|---|---|
| ***caurina* Brown, 1962: 60** | N. America |
| ****cyanella* (Gebler, 1830: 213)** | Altai |
| ***dolini* Lopatin, 1999: 891** | S.-E. Kazakhstan |
| ***dubeshkoae* L. Medvedev, 1974: 181** | Mongolia |
| (*bannikovae* L. Medvedev, 1978: 193<br>(*bannikovay* L. Medvedev, 1978: 193, lapsus calami) | |
| ***kaikana* Lopatin, 1992: 5** | Kazakhstan |
| ***kryzhanovskii* (Lopatin, 1968: 550)** | Kazakhstan |
| ****octocosta* (Jacobson, 1924: 78)** | Kazakhstan |
| ***oirota* Lopatin, 1990: 50** | Altai |
| ****saurica* (Jacobson, 1924: 78)** | E. Kazakhstan |
| ****septentrionalis* (Ménétriés, 1851: 73)**<br>(*kuznetzowi* Jacobson, 1897: 434)<br>(*sculpturata* Jacobson, 1895: 548)<br>(*tundralis* Jacobson, 1910: 65) | N. Asia, Urals, Komi, Krasnojarsk Krai, Irkutsk reg., Novaya Zemlya |
| ****subsulcata* (Mannerheim, 1853: 254)**<br>(*birulai* Jacobson, 1910: 56)<br>(*glacialis* Jacobson, 1910: 59) | Arctic Asia, Wrangel Isl., New Siberian Is., Alaska, Is. of Bering Sea, Strait |
| ****tastavica* Lopatin, 1992: 6** | Kazakhstan |
| ****teleuta* (Jacobson, 1922: 521)** | Altai |
| (*teleutica* L. Medvedev et Dubeshko, 1992: 108, lapsus calami) | |
| ***valichanovi* Lopatin, 1990: 53** | S.-E. Kazakhstan |

***wollosowiczi* (JACOBSON, 1910: 59)** Arctic Asia, N. Alaska

(*novosibirica* JACOBSON, 1910: 60)

**Subgenus *Atechna* CHEVROLAT, 1833: 403 [remark 6]**

(*Polysticta* HOPE, 1840: 164, type species: *Chrysomela guttata* FABRICIUS [*pardalina* FABRICIUS], by the original designation).

(*Athecna* CHEVROLAT, 1843: 282, type species is not designated).

Type species: *Chrysomela striata* FABRICIUS, designated by MONROS & BECHYNÉ, 1956.

***burgeoni* BECHYNÉ, 1948: 538**
**s. str.** Kongo

**ssp. *quangoensis* BECHYNÉ, 1948: 540** Angola

***catenata* (VOGEL, 1871: 9)** S. Africa

***clathrata* (CLARK, 1864: 173)** S. Africa

***coelophoroides* (VOGEL, 1871: 11)** S. Africa

***consimilis* (CLARK, 1864: 172)** S. Africa

***dissoluta* (VOGEL, 1871: 11)** S. Africa

***duodecimguttata* (THUNBERG, 1787: 44)** S. Africa

(*mansueta* DACCORDI, 1976: 35)
(*modesta* CLARK, 1864: 170 nec FABRICIUS, 1792: 323)
(*quatuordecimguttata* FABRICIUS, 1798: 85)

***fasciata* (DEGEER, 1778: 662)** S. Africa

(*alternans* FABRICIUS, 1794: 447)
(*cribrosa* THUNBERG, 1821: 179 nec AHRENS, 1812: 1)
(*duodecimlineata* THUNBERG, 1821: 179)
(*linea* FABRICIUS, 1796: 42)
(*lineolata* CLARK, 1864: 123)
(*nigrofasciata* CLARK, 1864: 120)

(*novemvittata* FABRICIUS, 1781: 120)
(*picturata* CLARK, 1864: 122)
(*pulchella* CLARK, 1864: 120)
(*vittata* FABRICIUS, 1787: 69)

***figurata* (CLARK, 1864: 172)** S. Africa

(*guttata* VOGEL, 1871: 104 nec FABRICIUS, 1792: 313)
(*varivestis* VOGEL, 1871: 10)

***haagi* (VOGEL, 1871: 11)** S. Africa

***haemograpta* BECHYNÉ, 1948: 537** S. Africa

***hebe* (CLARK, 1864: 173)** S. Africa

(*lynx* VOGEL, 1871: 9)

***interruptofasciata* (JACOBY, 1898: 241)** S. Africa

***lineoligera* (VOGEL, 1871: 8)** S. Africa

***marginepicta* (VOGEL, 1871: 9)** S. Africa

***marshalli* (CLARK, 1864: 121)** S. Africa

***multifida* (CLARK, 1864: 170)** S. Africa

(*flavosparsa* CLARK, 1864: 174)

***palliata* (VOGEL, 1871: 11)** S. Africa

***pardalina* (FABRICIUS, 1781: 106)** S. Africa

(*decempustulata* THUNBERG, 1787: fig. 4)
(*guttata* FABRICIUS, 1792: 313)
(*subcruciata* CLARK, 1864: 117)
(*vigintiguttata* OLIVIER, 1807: 533)

***polyops* (VOGEL, 1871: 9)** S. Africa

***problematica* (VOGEL, 1871: 11)** S. Africa

***progressa* (VOGEL, 1871: 11)** S. Africa

***pulla* (SWARTZ, 1808: 253)** S. Africa

(*nigra* CLARK, 1864: 121 nec FOURCROY, 1785: 106)

***repanda* (WIEDEMANN, 1821: 179)** S. Africa

****revestita* (VOGEL, 1871: 10)** S. Africa

***sexlineata* (THUNBERG, 1821: 179)** S. Africa

(*soluta* CLARK, 1864: 123)

****striata* (FABRICIUS, 1781: 122)** S. Africa

***taeniolata* (VOGEL, 1871: 9)** S. Africa

****tetraspilota* (VOGEL, 1871: 10)** Africa

***tortuosa* BECHYNÉ, 1948: 539** Angola

***tricolor* (VOGEL, 1871: 9)** S. Africa

****vigintimaculata* (CLARK, 1864: 169)** S. Africa

(*vicenaria* VOGEL, 1871: 11)

***vigintipustulata* (THUNBERG, 1787: 44)** S. Africa

(*vigintiguttata* CLARK, 1864: 169 nec OLIVIER, 1807: 533)

***vigintiquatuorsignata* (THUNBERG, 1808: 241)** S. Africa

***vulpecula* (VOGEL, 1871: 11)** S. Africa

***vulpina* (FABRICIUS, 1781: 122)** S. Africa

(*bipustulata* THUNBERG, 1787: 44)
(*coccinelloides* THUNBERG, 1787: 44)
(*ebraea* FABRICIUS, 1798: 86)
(*octopustulata* THUNBERG, 1787: 44)

**Subgenus *Atlasiana* Bourdonne et Doguet, 1991: 57**

Type species: *Chrysomela seriatipora* Fairmaire, by the original designation.

| | |
|---|---|
| ***seriatipora* (Fairmaire, 1867: 415)** | Algeria |
| (*edughensis* Fairmaire, 1873: 357)<br>(*seriatopora* Bechyné, 1950: 184, lapsus calami)<br>(*seriatophora* Bechyné, 1950: 155, lapsus calami) | |

**Subgenus *Bechynea* L. Medvedev, 1966: 40**

Type species: *Chrysolina kabakovi* L. Medvedev [*nikolskyi* Jacobson, 1898], by the original designation.

| | |
|---|---|
| ***nikolskyi* (Jacobson, 1898: 200)** | Amur reg., Sakhalin, S. Kurile Is. |
| (*Timarcha kawakami* Matsumura, 1911: 141)<br>(*kabakovi* L. Medvedev, 1966: 41) | |
| ***sulcicollis* (Fairmaire, 1887: 330)** | |
| **s. str.** | China, Korea |
| **ssp. *adzhalamica* L. Medvedev, 1970: 162** | S. Khabarovsk Krai |
| ***ssp. *solida* (Weise, 1898: 207)** | Korea |
| (*koreana* Chûjô, 1941: 68) | |
| ***ssp. *sutschanica* L. Medvedev, 1970: 161** | S. Primorski Krai |

**Subgenus *Bechynia* Bourdonne, 1977: 330**

Type species: *Chrysolina platypoda* Bechyné, by the originaldesignation.

| | |
|---|---|
| ***milleri* (Weise, 1884: 162)** | Croatia, Krain |
| ***montana* (Gebler, 1848: 23)** | Altai |
| ***philotesia* Daccordi et Ruffo, 1980: 357** | Greece |

| | |
|---|---|
| ***platypoda* Bechyné, 1950: 62** | S. France |
| ***substrangulata* Bourdonne, 1986: 237** | Hungary |

**Subgenus *Bittotaenia* Motschulsky, 1860: 206 [remark 7]**

(*Gemellata* J. Sahlberg, 1913: 247, partim, type species not designated) **Syn. nov.** [remark 8]

Type species: *Chrysomela salviae* Germar, by the original designation.

| | |
|---|---|
| ***aeneipennis* (Reiche, 1858: 328)** | Asia Minor, Syria, Palestine |
| (*derelicta* Marseul, 1887: 84)<br>(*subcoerulea* Sahlberg, 1913: 246)<br>(*tripolitanica* Bechyné, 1950: 178) | |
| ***brancuccii* (Daccordi, 1982: 406)** | Oman |
| ***compuncta* (Weise, 1898: 191)** | Asia Minor, Syria, Palestine, Cyprus, Libya |
| (*aeneipennis* Marseul, 1887: 85 nec Reiche, 1858: 328) | |
| ***grata* (Faldermann, 1837: 361)** | |
| ***s. str.** | C. Asia, Iran, Caucasus, Afghanistan, Sinai [remark 9] |
| (*megriensis* Ter-Minasian, 1950: 131) | |
| **ssp. *nigrolucens* (Lopatin, 1985: 770)** | C. Iran |
| ***leonardii* (Daccordi, 1976: 79)** | Sinai |
| ***mellyi* (Stål, 1857: 60)** | China, India, Afghanistan, Iran, Himalaya |
| (*coelestina* Baly, 1879: 193) | |
| ***salviae* (Germar, 1824: 586)** | |
| ***s. str.** | Europe, Syria |
| (*cuprina* Redtenbacher, 1849: 548) | |

| | |
|---|---|
| ***ssp. *catalonica* (Bechyné, 1950: 178)** | Spain (Catalonia) |
| ***ssp. *sculptipennis* (Faldermann, 1837: 359)** | Caucasus, Asia Minor |
| ****turanica* (Reitter, 1888: 31)** | Turkmenistan, Afghanistan |

**Subgenus *Camerounia* Jolivet, 1949: 7**

(*Polystictella* Bechyné, 1952: 355, type species: *Chrysomela clarki* Baly, by the original designation)

Type species: *Iscadida ornata* Baly, by the original designation.

| | |
|---|---|
| ****clarki* (Baly, 1864: 227)** | S., E. Africa |
| (*malvernensis* Achard, 1914: 53) | |
| ***coarctata* Weise, 1912: 83** | C. Africa |
| (*ornata* Baly, 1876: 79 nec Ahrens, 1812: 13) | |
| ***curata* (Weise, 1907: 135)** ? | E. Africa |
| ***duodecimstillata* (Weise, 1898: 207)** | Africa (Uzambara) |
| ***elysia* Bechyné, 1954: 662** | Tanganyika |
| ***guttipennis* (Weise, 1912: 138)** | C. Africa |
| ***latipleura* Bechyné, 1952: 384** | Africa (N.-Uluguru) |
| ***semirufa* (Fairmaire, 1894: 335)** | Mozambique |

**Subgenus *Cecchiniola* Jacobson, 1908: 624 Stat. nov. [remark 10]**

Type species: *Chrysomela platyscelidina* Jacobson, by the original designation.

| | |
|---|---|
| ****platyscelidina* (Jacobson, 1898: 201)** | Crimea |

**Subgenus *Centoptera* Motschulsky, 1860: 207**

Type species: *Chrysomela regalis* Olivier, [*bicolor* Fabricius], by the original designation.

| | |
|---|---|
| ***bicolor* (Fabricius, 1775: 95)** | Mediterranean basin |
| (*canariensis* Brullé, 1838: 73)<br>(*consularis* Erichson, 1841: 190)<br>(*dolorosa* Fairmaire, 1873: 359)<br>(*lusitanica* Gmelin, 1790: 1688 nec Fabricius, 1781: 116)<br>(*marseuli* Kocher, 1958: 58 nec Weise, 1898: 200)<br>(*mima* Marseul, 1887: 99)<br>(*nigropunctata* Reitter, 1872: 175)<br>(*regalis* Olivier, 1807: 538)<br>(*scovitzii* Ménétriés, 1832: 235)<br>(*scovitzi* Weise, 1916: 61, lapsus calami) | |

**Subgenus *Chalcoidea* Motschulsky, 1860: 209**

Type species: *Chrysomela marginata* Linnaeus, by the original designation.

| | |
|---|---|
| ***amasiensis* (Weise, 1894: 92)** | Turkey |
| (*lepida* Brullé, 1832: 270 nec Olivier, 1807)<br>(*brullei* Portevin, 1934: 232) | |
| ***analis* (Linnaeus, 1767: 592)** | Europe, Algeria [remark 11] |
| (*lomata* Herbst, 1783: 54)<br>(*prasina* Suffrian, 1851: 85)<br>(*schach* Fabricius, 1792: 326) | |
| ***bechynei* (Gressitt et Kimoto, 1963: 311)** | W. China |
| ***brahma* Takizawa, 1980: 51** [remark 12] | India |
| ***carnifex* (Fabricius, 1792: 325)**<br>***s. str.*** | C., E. Europe |
| (*konowi* Weise, 1889: 127) | |
| **ssp. *burdigalensis* Bechyné, 1949: 86** | France |

| | |
|---|---|
| ***ssp. *coerulescens* (Suffrian, 1851: 76)** | E. France, W. Germany |
| ***ssp. *cruentata* (Suffrian, 1851: 74)** | C. Spain, Portugal |
| **ssp. *fossulata* (Suffrian, 1853: 101)** | Spain (Catalonia) |
| ****cilissa* (Jacobson, 1924: 81)** [remark 13] | Turkey |
| ****cinctipennis* (Harold, 1874: 3416)** | Hungary, Eur. Russia, Kazakhstan, Kyrghyzstan, Daghestan |
| ***curvilinea* (Weise, 1884: 164)** | C., S. Spain |
| (*janbechynei* Cobos, 1953: 129) | |
| ***dieckmanni* (Mohr, 1966: 94)** [remark 14] | |
| **s. str.** | "Dsungarei" |
| **ssp. *alaiensis* Lopatin, 1998: 833** [remark 15] | Kyrghyzstan |
| ***extorris* Brown, 1962: 61** | California |
| ***flavomarginata* (Say, 1824: 452)** | |
| ***s. str.** | USA |
| ***ssp. *vidua* (Rogers, 1856: 36)** | USA |
| ***hudsonica* Brown, 1937: 35** | North of N. America |
| ****hyrcana* (Weise, 1884: 389)** | S.-E. Eur., Russia [remark 16], N.-E. Turkey, N.-W. Iran, Armenia, Azerbaijan, Kazakhstan |
| (*chalybea* Brancsik, 1899: 103) | |
| (*cyanescens* Jacobson, 1894: 159) | |
| ****instabilis* (Maeklin, 1877: 30)** | N Asia |
| ***interstincta* (Suffrian, 1851: 79)** | |
| ***s. str.*** | C., S. Italy |
| (*depressa* Fairmaire, 1854: 317) | |

| | |
|---|---|
| ***ssp. *graellsi* (A. Perez, 1872: 124)** | C. Spain |
| **ssp. *coiffaiti* Bechyné, 1949: 85** | S.-W. France |
| ***ssp. *subseriata* (Suffrian, 1851: 80)** | C., S. France |
| (*haemoptera* Rossi, 1790: 74 nec Linnaeus, 1758: 369) | |
| ****lehri* (Lopatin, 1970: 184)** [remark 17] | S.-E. Kazakhstan |
| ****levi* Okhrimenko, 1990: 64** | Krasnodar Krai, (Taman) |
| ****lia* (Jacobson, 1895: 551)** [remark 7] | C. Asia, Afghanistan |
| (*freyi* Bechyné, 1950: 167)<br>(*haarlovi* Jakob, 1962: 194) | |
| ***manipurensis* Maulik, 1926: 20** | India |
| ***marginata* (Linnaeus, 1758: 371)** | |
| ****s. str.*** | Europe, Siberia, Far East, Alaska |
| (*cinctella* Gyllenhal, 1827: 650)<br>(*finitima* Brown, 1962: 60) **Syn. nov.** [remark 18]<br>(*solitaria* Weise, 1884: 391) | |
| ***ssp. *bodemeyeri* (Weise, 1910: 36)** | Iran, Iraq, Syria, C. Asia |
| (*subfasciata* Melichar, 1912: 35) | |
| ***ssp. *borealis* L. Medvedev, 1980: 94** | N. Urals, Yamal, Taimyr [remark 19] |
| ***ssp. *circumducta* (Ménétriés, 1835: 268)** | C. Asia, Kazakhstan, Mongolia |
| (*songorica* Gebler, 1843: 39)<br>(*sulcata* Fischer, 1842: 25) | |
| **ssp. *dierythra* (Rottenberg, 1871: 243)** | Sicily |
| (*convexior* Bechyné, 1948: 15) | |

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|---|---|
| **ssp. *glacialis* (Weise, 1884: 391)** | W. Alps |
| **ssp. *iniussa* Bechyné, 1950: 165** | Spain (Catalonia) |
| **ssp. *luteocincta* (Fairmaire, 1864: 647)** | N. Africa |
| **ssp. *marginicollis* (Derenne, 1949: 171)** | Belgium |
| **ssp. *portai* Bechyné, 1948: 15** | N. Italy |
| **ssp. *purini* (Jacobson, 1895: 554)** | W. Transcaucasia |
| ***ssp. *roubali* Bechyné, 1946: 110** (*rugosopunctata* Roubal, 1917: 3 nec Halbherr, 1912) | N. Caucasus |
| **ssp. *sanguineocincta* (Croth, 1871: 268)** | Iran, Iraq, Syria, Egypt |
| ***ssp. *sculpticollis* Bechyné, 1948: 15** | Pyrenees |
| **ssp. *trebinjensis* (Roubal, 1917: 3)** ? | Herzegovina |
| ***ssp. *unificans* Bechyné, 1950: 166** | E. Turkey, S. Caucasus |
| ***sarroensis* (Kocher, 1958: 56)** | Morocco |
| ***sellata* (Weise, 1894: 92)** [remark 13] | Turkey, Mesopotamia |
| ****superstes* (Bedel, 1921: 61)** | |
| ***s. str.*** | Morocco (C. Atlas) |
| **ssp. *altiatlantica* (Kocher, 1958: 53)** | Morocco (C. Atlas) |
| **ssp. *antoinei* (Kocher, 1958: 53)** | Morocco (E. Atlas) |
| **ssp. *crebieri* (Kocher, 1958: 53)** | Morocco (E. Atlas) |
| **ssp. *ifranensis* (Kocher, 1958: 52)** | Morocco (Ifrane) |
| **ssp. *roulleaui* (Kocher, 1958: 55)** | Morocco |

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|---|---|
| ***tesari* (Roubal, 1936: 68)** | |
| ***s. str.** | Caucasus |
| (*kulzeri* Bechyné, 1950: 166) | |
| ***ssp. *elbursica* Lopatin, 1981: 373 Stat. nov.** [remark 20] | Iran, W. Turkmenistan |
| ****turgaica* (Jacobson, 1910: 59)** | W. Kazakhstan |
| ****unicolor* (Gebler, 1845: 105)** [remark 21] | S. Kazakhstan, Kyrghyzstan |
| (*immarginata* Rybakow, 1884: 135) | |
| ****vagecincta* (Fairmaire, 1875: 538)** | |
| ***s. str.** | Tunisia |
| **ssp. *obscuriventris* (Codina Padilla, 1960: 66)** | Morocco |
| ****vishnu* (Hope, 1831: 30)** | N. India, Nepal, Myanma, N. Vietnam, Bhutan |
| (*cingulata* Baly, 1862: 97) | |
| (*parvati* Daccordi, 1982: 396) | |
| ****zamotajlovi* L. Medvedev et Okhrimenko, 1991: 866** | N.-W. Caucasus |

**Subgenus *Chrysocrosita* Bechyné, 1950: 90**

Type species: *Heliostola spectabilis* Motschulsky, by the original designation.

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|---|---|
| ****alaschanica* (Jacobson, 1898: 196)** [remark 22] | China (Gansu, Inner Mongolia) |
| (*filchnerae* Weise, 1908: 92) | |
| ****jakowlewi* (Weise, 1894: 154)** | Sayan Mts., Tuva |
| (*jakovlevi* L. Medvedev et Dubeshko, 1992: 101, lapsus calami) | |
| ****przewalskyi* (Jacobson, 1898: 197)** [remark 22] | China, (Inner Mongolia) |
| ****sogdiorum* (Weise, 1892: 138)** [remark 23] | Kyrghyzstan |

***spectabilis* (MOTSCHULSKY, 1860: 223)**

| | |
|---|---|
| ***s. str.** | Kamchatka, Khabarovsk Krai [remark 24] |
| **ssp. *polychroma* L. MEDVEDEV, 1975: 182** | Sayan Mts., N. Mongolia |
| ***ssp. *viridipurpurea* L. MEDVEDEV, 1975: 182** | Tuva |

**Subgenus *Chrysolina* s. str.**

(*Stichosoma* MOTSCHULSKY, 1860: 208, type species: *Chrysomela banksii* auct. [*bankii* FABRICIUS], by the original designation)

Type species: *Chrysomela staphylaea* LINNAEUS, by the original designation.

***bankii* (FABRICIUS, 1775: 95)** — Europe

(*ausonia* SCHATZMAYR, 1941: 162)
(*banksi* auct.)
(*caesariensis* JOLIVET, 1951: 4)
(*chlorizans* WEISE, 1884: 379)
(*corcyraea* JOLIVET, 1951: 4)
(*ibizensis* BECHYNÉ, 1950: 93)
(*interior* JOLIVET, 1951: 194)
(*lepida* SUFFRIAN, 1851: 16 nec OLIVIER, 1807: 522)
(*maderensis* JOLIVET, 1951: 4)
(*mediterranea* JOLIVET, 1951: 4)
(*peloritana* SCHATZMAYR, 1941: 162)
(*phaeaca* JOLIVET, 1951: 194)
(*vitalei* SCHATZMAYR, 1941: 162)

***costalis* (OLIVIER, 1807: 513)** — Canary Is.

***obsoleta* (BRULLÉ, 1838: 73)** — Canary Is.

***staphylaea* (LINNAEUS, 1758: 370)**

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|---|---|
| ***s. str.** | Holarctic |

(*cuprea* DEGEER, 1775: 294)
(*lepida* STEPHENS, 1831: 341 nec OLIVIER, 1807: 522)

(*rubrocuprea* FOURCROY, 1785: 108)
(*sharpi* FOWLER, 1890: 304)
(*staphylea* auct.)
(*subferruginea* SUFFRIAN, 1851: 21)

**ssp. *arthritica* BECHYNÉ, 1950: 93** — Faeroes

***ssp. *daurica* (GEBLER, 1832: 73)** — Siberia, Kazakhstan, Kyrghyzstan, Primorski Krai, Mongolia, N. China

(*palliata* JACOBSON, 1901: 125, nec VOGEL, 1871: 11)

**ssp. *lederi* (WEISE, 1878: 76)** — Caucasus

***_wollastoni_ BECHYNÉ, 1957: 4** — Canary Is.

(*rutilans* WOLLASTON, 1864: 402 nec GRAVENHORST, 1807)

## Subgenus *Chrysolinopsis* BECHYNÉ, 1950: 82

Type species: *Chrysomela gemina* BRULLÉ, by the original designation.

***_gemina_ (BRULLÉ, 1838: 73)** — Canary Is., Madeira

(*nitens* BRULLÉ, 1838: 74)

## Subgenus *Chrysomorpha* MOTSCHULSKY, 1860: 204

Type species: *Chrysomela cerealis* LINNAEUS, by the original designation.

***cerealis* (Linnaeus, 1767: 588)**

(*costata* DUFTSCHMIDT, 1902: 84)
(*laminula* HERRICH-SCHAEFFER, 1839: Hf.157)
(*melanaria* SUFFRIAN, 1851: 115)

***_s. str._** — C., W. Europe

(*bivittata* SCHRANK, 1789: 66) ?
(*fasciata* FOURCROY, 1785: 108 nec DEGEER, 1778: 622)

(*livonica* MOTSCHULSKY, 1860: 227)
(*luxurians* OLIVIER, 1807: 546)
(*ornata* AHRENS, 1812: 13)

***ssp. *megerlei* (FABRICIUS, 1801: 439)** C., S.-E. Europe

(*alternans* PANZER, 1799: 16 nec FABRICIUS, 1794: 447)
(*ericae* SUFFRIAN, 1851: 110)
(*mixta* SUFFRIAN, 1851: 112 nec KÜSTER, 1844: 87)
(*plorans* BECHYNÉ, 1948: 13)

***ssp. *cyaneoaurata* (MOTSCHULSKY, 1860: 227)** Siberia, Mongolia

***ssp. *mixta* (KÜSTER, 1844: 87)** Alps, Pyrenees

(*fulgens* DUFOUR, 1851: 304) ?
(*kiesenwetteri* MOTSCHULSKY, 1860: 227)
(*octovittata* SCHRANK, 1789: 66)
(*violacea* SCHALLER, 1783: 270 nec MÜLLER, 1776: 81)

***ssp. *rufolineata* (MOTSCHULSKY, 1860: 227)** N. Caucasus, Ukraine, Crimea, E. Eur. Russia

## Subgenus *Colaphodes* MOTSCHULSKY, 1860: 212

Type species: *Chrysomela hottentota* FABRICIUS [*haemoptera* LINNAEUS], by the original designation.

***bigorrensis* (FAIRMAIRE, 1865: 77)** C. Pyrenees

***haemoptera* (LINNAEUS, 1758: 369)**
****s. str.*** Europe, Asia Minor

(*acuticollis* FAIRMAIRE, 1877: 179)
(*atra* GOEZE, 1777: 301)
(*atrata* GMELIN, 1790: 1688)
(*cameranoi* PIOLTI, 1880: 378)
(*erythroptera* SCHRANK, 1781: 70)
(*goettingensis* SCHRANK, 1789: 64 nec LINNAEUS, 1761: 506)
(*hottentota* FABRICIUS, 1792: 309)

(*molluginis* BRAHM, 1790: 226)
(*nigra* FOURCROY, 1785: 106)
(*subaenea* DUFTSCHMID, 1825: 194)

***ssp. *byzantia* JOLIVET, 1951: 194** Turkey

(*ottomana* JOLIVET, 1951: 6 nec WEISE, 1906: 554)

***ssp. *corvina* (WEISE, 1916: 75)** Italia

(*unicolor* SUFFRIAN, 1851: 55 nec GEBLER, 1845: 105)

**ssp. *persica* JOLIVET, 1951: 6** Iran

**Subgenus *Colaphoptera* MOTSCHULSKY, 1860: 215**

(*Byrrhiformis* J. SAHLBERG, 1913: 247, partim, type species not designated) **Syn. nov.** [remark 26]

Type species: *Chrysomela hemisphaerica* GERMAR, by the original designation.

******abchasica* **(WEISE, 1892: 405)** Caucasus

(*circassicola* REITTER, 1913: 112)

******adzharica* **LOPATIN, 1988: 589** Georgia (Adzharia)

******apsilaena* **Silfverberg, 1977: 93** Caucasus

(*fuscicornis* WEISE, 1892: 406 nec LINNAEUS, 1767: 595)
(*kubanensis* L. MEDVEDEV et OKHRIMENKO, 1991: 872) **Syn. nov.** [remark 27]

***biharica* (BREIT, 1919: 15)** S. Carpathians

***blanchei* (FAIRMAIRE, 1865: 75)**

****s. str.*** Syria, Palestine, Cyprus, Turkey [remark 28]

**ssp. *nilotica* BECHYNÉ, 1950: 97** Egypt

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|---|---|
| ***caspica* (WEISE, 1892: 406)** | Caucasus |
| (*caucasica* WEISE, 1882: 352 nec MOTSCHULSKY, 1860) | |
| (*danieli* ROUBAL, 1912: 3) | |
| ***crassicollis* (SUFFRIAN, 1851: 50)** | |
| ***s. str.** | Carniolia, S. Carpathians |
| **ssp. *rementina* BECHYNÉ, 1950: 101** | Rumania |
| ***differens* (FRANZ, 1952: 6)** | Krasnodar Krai, Georgia, N.-E. Turkey [remark 29] |
| (*exsul* BECHYNÉ, 1952: 371) | |
| (*kutaisa* BECHYNÉ, 1952: 371) | |
| (*trapezicollis* BECHYNÉ, 1952: 370) **Syn. nov.** [remark 30] | |
| ***globosa* (PANZER, 1805: 16)** | |
| ***s. str.** | C., S.-E. Europe |
| (*aerea* DUFTSCHMID, 1825: 187) ? | |
| (*aerea* REDTENBACHER, 1849: 547) | |
| **ssp. *banatica* (CSIKI, 1940: 920)** | S. Hungary |
| (*peripherica* BECHYNÉ, 1952: 367) | |
| **ssp. *reprehensa* BECHYNÉ, 1950: 103** | Bulgaria |
| ***hemisphaerica* (GERMAR, 1817: 204)** | |
| ***s. str.** | Alps, Carpathians |
| (*laeta* WEISE, 1882: 360) | |
| **ssp. *allobrogorum* BECHYNÉ, 1950: 109** | France |
| **ssp. *bavarica* BECHYNÉ, 1950: 108** | S. Bavaria |
| **ssp. *bechyneana* (KASZAB, 1962: 78)** | Banat |
| (*banatica* BECHYNÉ, 1950: 110 nec CSIKI, 1940: 920) | |

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| ***ssp. *crassimargo* (Germar, 1824: 584)** | C. Europe |
| (*viridis* Weise, 1882: 359) | |
| **ssp. *fallaciosa* (Müller, 1948: 92)** | Croatia, Istria, Bulgaria |
| (*notiophila* Bechyné, 1952: 368) | |
| **ssp. *franzi* Bechyné, 1952: 368** | Croatia |
| (*croatica* Franz, 1952: 5 nec Weise, 1884: 426) | |
| **ssp. *ominosa* Bechyné, 1950: 108** | S. Bohemia, Bavaria |
| **ssp. *plumbeonigra* Bechyné, 1950: 115** [remark 70] | S. Hungary |
| ***ssp. *purpurascens* (Germar, 1822: 6)** | C. Europe |
| (*avia* Weise, 1887: 185)<br>(*carpathica* Papp, 1946: 23, nec Fuss, 1856: 25)<br>(*crassimargo* Duftschmid, 1825: 178 nec Germar, 1824: 584)<br>(*dahli* Matzek, 1843: 155) | |
| **ssp. *stoeckleini* Bechyné, 1950: 109** | Bavaria |
| **ssp. *sutilis* Bechyné, 1950: 109** | Bosnia |
| ****lapidaria* Bechyné, 1950: 100** | |
| ***s. str.*** | C. Europe, Carpathians |
| **ssp. *macromela* Bechyné, 1952: 366** | Bosnia |
| **ssp. *pachysomoides* Bechyné, 1950: 100** | S. Rumania |
| ***marcasitica* (Germar, 1824: 585)** [remark 31] | |
| ****s. str.*** | C., S.-E. Europe |
| (*cupreopurpurea* Gerhardt, 1909: 420 nec Costa, 1838: 49)<br>(*distincta* Küster, 1844: 89)<br>(*subincrassata* Duftschmid, 1825: 179) | |

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| **ssp. *dissipabilis* Bechyné, 1950: 106** | S.-E. Europe |
| ***ssp. *turgida* (Weise, 1882: 355)** | Carpathians |
| (*pannonica* Weise, 1882: 355) | |
| ***planicollis* (Breit, 1919: 14)** | Asia Minor |
| ***pliginskii* (Reitter, 1913: 291)** | Crimea |
| (*taurica* Breit, 1919: 19) | |
| ***porphyrea* (Faldermann, 1837: 354)** | Caucasus |
| (*diga* Bechyné, 1952: 370)<br>(*erivanicola* Bechyné, 1952: 370)<br>(*kubanica* Bechyné, 1952: 370)<br>(*minutior* Bechyné, 1952: 370) | |
| ***rosti* (Weise, 1892: 406)** | Caucasus |
| ***rufa* (Duftschmid, 1825: 186)**<br>***s. str.** | C. Europe |
| (*dahli* Suffrian, 1851: 28)<br>(*menthae* Duftschmid, 1825: 187)<br>(*pachysoma* Hubenthal, 1911: 192)<br>(*robusta* Breit, 1919: 15) | |
| **ssp. *bohumilae* Bechyné, 1950: 99** | S. Bohemia |
| **ssp. *diminuta* Bechyné, 1950: 99** | Slovakia |
| ***ssp. *frieseri* Bechyné, 1950: 99** | S. Bavaria |
| **ssp. *squalida* (Suffrian, 1851: 31)** | N.-E. Bohemia, Silesia, N. Moravia |
| **ssp. *staphylaeoides* Bechyné, 1950: 99** | Saxony, Thuringia, N.-W. Bohemia |
| (*metallica* Küster, 1847: 93 nec Degeer, 1778: 661)<br>(*opulenta* Suffrian, 1851: 30 nec Reiche, 1850: 405) | |

******umbratilis* **(WEISE, 1887: 185)**
***s. str.*** — Rumania, Croatia, Carpathians

(*atra* MATZEK, 1843: 154 nec GOEZE, 1777: 301)
(*dahli* HERRICH-SCHAEFFER, 1839: Hf.157) ?
(*olivacea* SUFFRIAN, 1851: 53 nec SCHALLER, 1783: 272)

**ssp. *erudita* BECHYNÉ, 1952: 367** — S. Hungary

## Subgenus *Colaphosoma* MOTSCHULSKY, 1860: 216

Type species: *Chrysomela goettingensis* LINNAEUS [*sturmi* WESTHOFF], by the original designation.

***sturmi* (WESTHOFF, 1882: 268)**
******s. str.* — W. Europe

(*fuscipes* GMELIN, 1790: 1672)
(*goettingensis* LINNAEUS, 1761: 506 nec LINNAEUS, 1758: 368)
(*haemoptera* FABRICIUS, 1792: 315 nec LINNAEUS, 1758: 369)
(*nigrita* TOWNSON, 1797: 459 nec FABRICIUS, 1792: 309)
(*obscurata* FABRICIUS, 1798: 85) ?
(*violacea* WEISE, 1916: 96 nec MÜLLER, 1776: 81)
(*vulgatissima* SCHRANK, 1781: 69 nec LINNAEUS, 1758: 370)

***ssp. *diversipes* (BEDEL, 1892: 147)** — E. Europe, Siberia, Kazakhstan

***ssp. *polonica* (WEISE, 1884: 374)** — Ukraine

## Subgenus *Craspeda* MOTSCHULSKY, 1860: 191

(*Zeugotaenia* MOTSCHULSKY, 1860: 206, type species: *Chrysomela limbata* FABRICIUS, by the original designation)

Type species: *Chrysomela besseri* KRYNICKI [*limbata* FABRICIUS], by the original designation.

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|---|---|
| ***furva* (PEYERIMHOFF, 1926: 96)** | Morocco |
| ****jenisseiensis* (BREIT, 1920: 81)** | Eur. Russia, (Tambov), Caucasus, Kazakhstan, S. Siberia, Yakutia, Mongolia |
| ***limbata* (FABRICIUS, 1775: 101)** | |
| ****s. str.*** | Europa, Caucasus, Siberia |
| (*besseri* KRYNICKI, 1832: 171)<br>(*kavani* BECHYNÉ, 1950: 170)<br>(*limbifera* KÜSTER, 1846: 91) | |
| ***ssp. *discipennis* (FALDERMANN, 1835: 268)** | S.-E. Europe, Kazakhstan, S. Siberia, Yakutia, Mongolia |
| **ssp. *findeli* (SUFFRIAN, 1851: 70)** | Alps |
| **ssp. *luigionii* (DEPOLI, 1936: 139)** | Italy |

**Subgenus *Crositops* MARSEUL, 1883: 105**

Type species: *Chrysomela pedestris* GEBLER, by the monotypy.

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| ****kabaki* LOPATIN, 1988: 587** | Kazakhstan |
| ****pedestris* (GEBLER, 1823: 118)** | E. Kazakhstan, W. Siberia |
| (*pterosticha* FISCHER DE WALDHEIM, 1842: 25)<br>**Syn. nov.** [remark 32] | |
| ****roddi* (JACOBSON, 1897: 432)** [remark 33] | Samara reg., Bashkortostan, Chelyabinsk reg. |

**Subgenus *Diachalcoidea* BECHYNÉ, 1955: 349**

Type species: *Chrysomela sacarum* WEISE, by the original designation.

***aegyptiaca* (OLIVIER, 1807: 528)** ?
***s. str.*** — Egypt, Libya

**ssp. *aleppensis* BECHYNÉ, 1955: 350** — Syria

***badakhshanica* (IABLOKOFF-KHNZORIAN, 1978: 119)** — Tadzhikistan

***sacarum* (WEISE, 1890: 479)**
****s. str.*** — C. Asia, Iran, Afghanistan

**ssp. *embiensis* LOPATIN, 1996: 641** — W. Kazakhstan

## Subgenus *Erythrochrysa* BECHYNÉ, 1950: 91

Type species: *Chrysomela polita* LINNAEUS, 1758, by the original designation.

***polita* (LINNAEUS, 1758: 370)**
****s. str.*** — Palaearctic

(*epipleuralis* JACOBSON, 1895: 554)
(*kafkana* REITTER, 1898: 359)

***ssp. *adamsi* (BALY, 1879: 190)** — Siberia, Iran, W., N. China

**ssp. *ogloblini* (TER-MINASIAN, 1950: 131)** — Armenia

## Subgenus *Euchrysolina* BECHYNÉ, 1950: 83

(*Chrysomela* MOTSCHULSKY, 1860: 204 nec LINNAEUS, 1758, type species: *Chrysomela graminis* LINNAEUS, by the original designation).

Type species: *Chrysomela graminis* LINNAEUS, by the original designation.

***graminis* (LINNAEUS, 1758: 369)**
***s. str.** — Europe

(*fulgida* FABRICIUS, 1801: 432)
(*nigrocuprea* MALLET, 1924: 77)
(*taupini* MALLET, 1924: 77)

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| ***ssp. *artemisiae* (Motschulsky, 1860: 225)** | S.-E. Europe, Kazakhstan, C. Asia, S. Siberia, Mongolia |
| ***ssp. *auraria* (Motschulsky, 1860: 225)** | Dauria, Far East, E. Mongolia, China |
| **ssp. *christianae* (Mallet, 1933: 75)** | France |
| **ssp. *mediterranea* Bechyné, 1950: 85** | Corsica, Spain |
| **ssp. *rugulosa* (Mallet, 1933: 75 nec Gebler, 1841: 620)** | France |
| **ssp. *santonici* (Contarini, 1847: 20)** | C. Alps |
| (*schallehni* Reineck, 1914: 240) | |
| ****virgata* (Motschulsky, 1860: 224)** | Far East, Japan |
| (*eximia* Baly, 1862: 20)<br>(*obscurofasciata* Jacoby, 1885: 208) | |

**Subgenus *Fastuolina* Warchalowski, 1991: 281**

(*Dlochrysa* Bechyné, 1950 nec Motschulsky, 1860: 203, type species: *Coccinella fastuosa* Scopoli, by monotypy)

Type species: *Coccinella fastuosa* Scopoli, by monotypy.

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|---|---|
| ***fastuosa* (Scopoli, 1763: 74)** | |
| ****s. str.*** | Europe, Caucasus, Kazakhstan, Siberia |
| (*aenea* Fourcroy, 1785: 12)<br>(*coromandeliana* Maulik, 1926: 21)<br>(*cupreonitens* Marseul, 1886: 46)<br>(*galeopsidis* Schrank, 1798: 532) | |
| **ssp. *andorrensis* Bechyné, 1950: 174** | Andorra |
| **ssp. *inexplicabilis* (Brancsik, 1910: 189)** | Banat |

**ssp. *biroi* Csiki, 1953: 129** Rumania

(*jodasi* Bechyné, 1954: 90) **Syn. nov.** [remark 34]

**ssp. *ventricosa* (Suffrian, 1858: 539)** C., S. Italy, S. Spain

**Subgenus *Ghesquiereita* Bechyné, 1950: 171**

(*Ghesquierita* Bechyné, 1950: 171 - incorrect original spelling).

Type species: *Chrysomela spiloptera* Achard, by the originaldesignation.

***angolensis* (Weise, 1917: 94)** Angola

(*monardi* Bechyné, 1948: 545)

***bertiae* Daccordi, 1982: 866** Cameroon

***dogueti* Daccordi, 1982: 866** Angola

***eldae* Daccordi, 1982: 867** Angola

***katangana* (Achard, 1924: 105)** Tanganyika, Congo

(*saegeri* Burgeon, 1941: 183)

***masoni* Daccordi, 1982: 866** Cameroon

****metallica* (Degeer, 1778: 661)** E., S. Africa

(*lusitanica* Gyllenhal, 1813: 454 nec Fabricius, 1781: 116)

***minuscula* Daccordi, 1982: 866** Cameroon

***murina* Daccordi, 1982: 867** Angola

***patriciae* Daccordi, 1982: 866** Cameroon

****ruandana* (Weise, 1912: 137)** Tanganyika, Congo, Ruanda

(*pauperata* Burgeon, 1941: 186)

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|---|---|
| ***seenoi* DACCORDI, 1982: 867** | Lesotho |
| ***spiloptera* (ACHARD, 1926: 43)** | Tanganyika, Congo |
| (*straeleni* JOLIVET, 1952: 39) | |
| (*upembae* JOLIVET, 1952: 38) | |

**Subgenus *Heliostola* MOTSCHULSKY, 1860: 190**

Type species: *Chrysomela islandica* GERMAR, [*lichenis* RICHTER], by the original designation.

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|---|---|
| ***carpathica* (FUSS, 1856: 25)** | |
| ****s. str.*** | Rumania, Carpathians |
| (*hopffgarteni* WEISE, 1890: 30) | |
| ***ssp. *gabrieli* (WEISE, 1903: 163)** | Silesia, Slovakia, Carpatians, N. Rumania |
| ***katonica* LOPATIN, 1988: 590** | Kazakhstan |
| ***lichenis* (RICHTER, 1820: t. 6)** | |
| ****s. str.*** | Bohemia |
| (*islandica* GERMAR, 1824: 585) | |
| (*nigerrima* WEISE, 1882: 350) | |
| (*quadricollis* WEISE, 1882: 350) | |
| ***ssp. *ahena* (GERMAR, 1824: 586)** | Alps |
| **ssp. *havelkai* BECHYNÉ, 1949: 55** | W. Slovakia |
| ***ssp. *moraviaca* (WEISE, 1882: 350)** | Silesia, Slovakia |
| ***ssp. *rhipaea* (WEISE, 1898: 204)** | Rumania |
| **ssp. *suturalis* BECHYNÉ, 1947: 60** | Podolia |
| ****schewyrewi* (JACOBSON,1895: 547)** | Siberia |
| (*despecta* KONTKANEN, 1957: 208) | |

| | |
|---|---|
| ***schneideri* (WEISE, 1882: 349)** | Slovakia (V.Tatry) |

**Subgenus *Hypericia* BEDEL, 1899: 258**

(*Gemellata* J. SAHLBERG, 1913: 247, partim, type species not designated) **Syn. nov.** [remark 8]

Type species: *Chrysomela hyperici* FORSTER, designated by BECHYNÉ, 1950.

| | |
|---|---|
| ***anatolica* (DAHLGREN, 1984: 42)** | Turkey, Bulgaria |
| ****brunsvicensis* (GRAVENHORST, 1807: 135)** | N., C. Europe |
| (*centaurii* SCRIBA, 1791: 294)<br>(*duplicata* ZENKER, 1815: 148)<br>(*subseriepunctata* DIETRICH, 1857: 135) | |
| ***corcyrica* (SUFFRIAN, 1851: 133)** | Italy, Corfu, Greece, Sicilia |
| (*reuleauxi* BRENSKE, 1890: 14) | |
| ***cuprina* (DUFTSCHMID, 1825: 177)** | |
| ****s. str.*** | Europe |
| **ssp. *dilecta* BECHYNÉ, 1952: 380** | Altai, Sayan Mts. |
| **ssp. *nigritula* BECHYNÉ, 1954: 90** [remark 35] | |
| (*lugubrina* BECHYNÉ, 1954: 90)<br>(*nigra* REITTER, 1912: 112, nec FOURCROY, 1785: 106) | |
| **ssp. *staneki* BECHYNÉ, 1949: 52** | Turkey |
| ***didymata* (SCRIBA, 1791: 294)** | |
| ****s. str.*** | Europe, Asia Minor, C. Asia, Kazakhstan, |
| (*quinquejugis* MARSHAM, 1802: 173) | Armenia |
| ***ssp. *elongatior* BECHYNÉ, 1952: 379** | Lebanon, Syria |
| ***ssp. *syriaca* (WEISE, 1884: 408)** | Syria, Palestine, Rhodes |

| | |
|---|---|
| ***difficilis* (Motschulsky, 1860: 228)** | |
| ***s. str.** | Altai, Sayan Mts. |
| ***ssp. *ussuriensis* (Jacobson, 1901: 126)** | Amur, S. Primorski Krai, Manchuria |
| (*aeruginosa* Weise, 1887: 180, nec Faldermann, 1835: 440)<br>(*pubitarsis* Bechyné, 1950: 160) **Syn. nov.**<br>[remark 36] | |
| ***ssp. *yezoensis* (Matsumura, 1911: 141)** | Sakhalin, Japan, Korea, Manchuria |
| (*exgeminata* Bechyné, 1952: 380) **Syn. nov.**<br>[remark 37]<br>(*nikinoja* Bechyné, 1950: 155) **Syn. nov.**<br>[remark 38]<br>(*pseudogeminata* Bechyné, 1950: 156)<br>(*shikokensis* Nakane, 1963: 19) | |
| ***fricata* Bechyné, 1950: 158** | S.-E. China |
| ***geminata* (Paykull, 1799: 65)** | Europe |
| (*approximata* Zenker, 1815: 148)<br>(*bifoveolata* Brancsik, 1910: 190) | |
| ***gracilis* Bechyné, 1950: 157** | S. China, N. Vietnam |
| ***hyperici* (Forster, 1771: 20)** | |
| ***s. str.**<br>(*ambigua* Weise, 1884: 407)<br>(*fucata* Fabricius, 1781: 126)<br>(*gemellata* Fourcroy, 1785: 110)<br>(*privigna* Weise, 1884: 407)<br>(*viridula* Laicharting, 1781: 147) | Europe, N. Africa, W. Caucasus, Asia Minor, Australia, Canada, USA |
| ***ssp. *daghestanica* (Reitter, 1913: 111)** | E. Caucasus, Iran |
| ***medogana* Chen et Wang, 1981: 511** ? | China (Xizang) |
| ***nikkoensis* (Jacoby, 1885: 207)** | China, Japan, N. Vietnam |

***ohoi* CHÛJÔ, 1958: 50** Taiwan

****quadrigemina* (SUFFRIAN, 1851: 125)** Europe, Tunis, Egypt, Canada, USA

(*alternata* SUFFRIAN, 1851: 127)
(*conversaria* BECHYNÉ, 1952: 380)
(*gemellata* ROSSI, 1792: 30 nec FOURCROY, 1785: 110)
(*indigena* WEISE, 1884: 405)
(*isidis* BECHYNÉ, 1952: 380)
(*normandi* BECHYNÉ, 1949: 51)

### Subgenus *Jacobsonia* L. MEDVEDEV, 1970: 162

Type species: *Chrysolina pudica* L. MEDVEDEV, by the original designation.

****pudica* L. MEDVEDEV, 1970: 162** China (Sichuan)

### Subgenus *Lithocrosita* L. MEDVEDEV, 1982

Type species: *Chrysomela rugulosa* GEBLER, by the monotypy.

****rugulosa* (GEBLER, 1841: 620)** Altai, Tuva, E. Sayan Mts., N. Mongolia

(*Crosita concinna* WEISE, 1894: 154)

### Subgenus *Lithopteroides* STRAND, 1935: 295

(*Lithoptera* MOTSCHULSKY, 1860: 210 nec MÜLLER, 1858).

Type species: *Chrysomela musiva* GEBLER [*exanthematica* WIEDEMANN], by the original designation.

***exanthematica* (WIEDEMANN, 1821: 178)** [remark 39]
****s. str.*** Siberia, Far East, China, India, Vietnam

(*guttata* GEBLER, 1817: 316 nec FABRICIUS, 1792: 313)
(*musiva* GEBLER, 1830: 215)
(*sericata* JACOBSON, 1901: 125)
(*speculifera* REDTENBACHER, 1848: 558)

| | |
|---|---|
| ***ssp. *gemmifera* (MOTSCHULSKY, 1860: 229)** | S. Siberia, Mongolia |
| (*guttifera* MOTSCHULSKY, 1860: 229)<br>(*nigrogemmata* MOTSCHULSKY, 1860: 229) | |
| **ssp. *laevipunctata* (LEWIS, 1879: 28)** | Japan |
| (*consimilis* BALY, 1874: 172 nec CLARK, 1864: 172)<br>(*marseuli* WEISE, 1898: 200)<br>(*subaenea* MOTSCHULSKY, 1860: 229 nec DUFTSCHMID, 1825: 194) | |
| ***laeviguttata* CHÛJÔ, 1958: 52** | Taiwan |

**Subgenus *Maenadochrysa* BECHYNÉ, 1950: 116**

Type species: *Chrysomela femoralis* OLIVIER, by the original designation.

| | |
|---|---|
| ***affinis* (FABRICIUS, 1787: 67)** | |
| ****s. str.*** | Algeria |
| **ssp. *bruttiana* BOURDONNE, 1999: 45** | S. Italy |
| **ssp. *caliginosa* (OLIVIER, 1807: 521)** | S. France |
| **ssp. *cribellata* (SUFFRIAN, 1851: 46)** | Sicilia |
| **ssp. *hecateia* BECHYNÉ, 1950: 119** | Spain (Sierra de Guadarrama) |
| **ssp. *hyacinthina* (SUFFRIAN, 1851: 45)** | S. Italy, Sicilia |
| **ssp. *indomita* BECHYNÉ, 1950: 119** | Spain (S. Aragon) |
| **ssp. *rufofemorata* (HEYDEN, 1870: 171)** | Spain (Asturias) |
| **ssp. *vicinitatis* BECHYNÉ, 1950: 120** | Spain (Asturias) |
| **ssp. *xanthophryna* BECHYNÉ, 1950: 118** | Tunis |
| ***atlantica* (ESCALERA, 1914: 524)** | Morocco |

| | |
|---|---|
| ***aveyronensis* Bechyné, 1950: 117** | S. France, S., S.-E. Spain [remark 40] |
| ***baetica* (Suffrian, 1851: 16)** | S. Spain |
| ***crassipes* (Lucas, 1849: 533)** | |
| ***s. str.*** | Algeria |
| **ssp. *porphyropus* (Peyerimhoff, 1915: 32)** | Algeria |
| ***femoralis* (Olivier, 1790: 690)** | |
| ***s. str.*** | Europe |
| **ssp. *balanyensis* Bechyné, 1950: 121** | Spain (Catalonia) |
| **ssp. *bargusiana* Bechyné, 1950: 121** | Spain (Catalonia) |
| **ssp. *camena* Bechyné, 1950: 120** | France |
| **ssp. *confusa* Suffrian, 1851: 47** | S. France |
| **ssp. *nevadensis* Cobos, 1952: 4** | Spain |
| **ssp. *ootypa* Bechyné, 1952: 372** | Spain (Pyrenees) |
| **ssp. *parumnitens* Bechyné, 1952: 372** | Spain (E. Pyrenees) |
| **ssp. *pernitescens* Bechyné, 1952: 372** | Spain (Pyrenees) |
| **ssp. *putealis* Bechyné, 1952: 372** | Spain |
| **ssp. *tagenii* (Herrich-Schaeffer, 1839: Hf. 157)** | Alps |
| **ssp. *varipes* Suffrian, 1851: 17** | S. France |
| (*laeta* Weise, 1884: 372 nec Weise, 1882: 360) | |
| ***lepineyi* (Kocher, 1958: 48)** | Morocco |
| ***mesatlantica* (Kocher, 1958: 47)** | Morocco |
| ***pseudoaenea* (Fairmaire, 1865: 74)** | Morocco |

| | |
|---|---|
| ***thalassina* (Reiche et Saulcy, 1858: 29)** | Syria |
| ***timarchoides* (Brisout, 1882: 179)** | Pyrenees |
| ***vermiculosa* (Marseul, 1886: 19)** | Algeria |

**Subgenus *Melasomoptera* Bechyné, 1950: 141**

Type species: *Chrysomela grossa* Fabricius, by the original designation.

| | |
|---|---|
| ***grossa* (Fabricius, 1792: 317)** | |
| ***s. str.** | S. Europe, Sicilia, E. Algeria |
| (*illita* Weise, 1884: 432) | |
| **ssp. *chloromaura* (Olivier, 1807: 553)** | N.-W. Spain, Portugal |
| (*gallega* Fairmaire, 1861: 595) | |
| ***ssp. *tingitana* (Escalera, 1914: 525)** | S. Spain, Marocco |
| ***lucida* (Olivier, 1807: 553)** | |
| ***s. str.** | S. France, Spain |
| (*chloromaura* Charpentier, 1825: 233 nec Olivier, 1807: 553)<br>(*dichroa* Dufour, 1843: 107) | |
| **ssp. *suarezi* Cobos, 1952: 3** | Spain (Sierra Nevada) |
| **ssp. *torresi* Bechyné, 1950: 144** | Spain |
| ***lutea* (Petagna, 1819: 32)** | S. Europe, Sicilia, Corfu |
| (*laevipennis* Suffrian, 1851: 202)<br>(*lucida* Charpentier, 1825: 233 nec Olivier, 1807: 553) | |

**Subgenus *Mimophaedon* Bourdonne, 1996: 349**

Type species: *Chrysolina pourtoyi* Bourdonne, by the original designation.

***pourtoyi* BOURDONNE, 1996: 343** — France: Atlantic Pyrenees

### Subgenus *Naluhia* BECHYNÉ, 1948: 540

Type species: *Ch. confluens* GERSTAECKER, by the original designation.

***acervata* BECHYNÉ, 1948: 544** — C. Africa

(*barrosi* BECHYNÉ, 1950: 7)

***confluens* (GERSTAECKER, 1855: 637)** — C., S. Africa

(*adspergata* VOGEL, 1871: 9)
(*dimbrokensis* BECHYNÉ, 1950: 10)
(*nigrosignata* CLARK, 1864: 116)
(*obtexta* BECHYNÉ, 1950: 7)

***nigromaculata* (QUEDENFELDT, 1888: 216) s. str.** — C. Africa

(*fossulifera* BECHYNÉ, 1948: 544)
(*maculatissima* ACHARD, 1914: 50)
(*vilhenai* BECHYNÉ, 1950: 171)

**ssp. *verhulsti* (BURGEON, 1941: 184)** — E. Africa

(*exaequata* BECHYNÉ, 1948: 541)
(*orthostigma* BECHYNÉ, 1948: 543)

***simonsi* (BALY, 1878: 204)** — C. Africa

(*dilacerata* ANCEY, 1881: 485)
(*marshalii* JACOBY, 1901: 254)
(*occidentalis* BECHYNÉ, 1948: 541)
(*plagidorsis* ACHARD, 1926: 44)

### Subgenus *Ovosoma* MOTSCHULSKY, 1860: 214

(*Byrrhiformis* J. SAHLBERG, 1913: 247, partim, type species not designated) **Syn. nov.** [remark 26]

(*Gemellata* J. SAHLBERG, 1913: 247, partim, type species not designated) **Syn. nov.** [remark 8]

(*Parkaniola* BECHYNÉ, 1950: 130, type species: *Chrysolina susterai* BECHYNÉ, by the original designation)

Type species: *Chrysomela vernalis* BRULLÉ, by the original designation.

| | |
|---|---|
| ***cretica* (OLIVIER, 1807: 518)** | Crete |
| ***halysa* BECHYNÉ, 1950: 127** [remark 41] | |
| ***s. str.*** | Near East, Turkey, Cyprus |
| (*porphyrea* FAIRMAIRE, 1865: 76, nec FALDERMANN, 1837: 354) | |
| **ssp. *assyrica* BECHYNÉ, 1950: 127** | Iran, Iraq, Talysh |
| ***ssp. *intercalaria* BECHYNÉ, 1950: 127** | S. Caucasus |
| ***minckwitzi* (APFELBECK, 1912: 249)** [remark 42] | |
| ***s. str.*** | Bosnia, Montenegro |
| ***ssp. *winneguthi* (MÜLLER, 1948: 94)** | Albania, E. Montenegro |
| ***orientalis* (OLIVIER, 1807: 512)** | |
| ****s. str.*** | Turkey |
| (*campicola* GISTL, 1857: 576) | |
| ***ssp. *palaestina* BECHYNÉ, 1950: 127** | Palestine |
| **ssp. *thraeissa* BECHYNÉ, 1950: 126** | N. Greece |
| ***rhodia* BECHYNÉ, 1950: 127** | Rhodes |
| ****sahlbergi* (MÉNÉTRIÉS, 1832: 235)** | Turkey, Cyprus, Caucasus, Iran |
| (*cupreopunctata* REICHE, 1858: 30) | |
| (*venefica* WEISE, 1884: 369) | |

| | |
|---|---|
| ***susterai* BECHYNÉ, 1950: 130** | Europe, N. Caucasus, Kazakhstan, Altai |
| (*morio* KRYNICKI, 1832: 171 nec FABRICIUS, 1787: 66) | |
| ***turca* (FAIRMAIRE, 1865: 74)** | Turkey, Bulgaria |
| ***vernalis* (BRULLÉ, 1836: 269)** | |
| ***s. str.** | Balkan Penins. |
| (*bicolor* GERMAR, 1813: 148 nec FABRICIUS, 1775: 95) | |
| (*florea* HERRICH-SCHAEFFER, 1839: Hf.157) | |
| (*incerta* HERRICH-SCHAEFFER, 1839: Hf.157) ? | |
| ***ssp. *cantabrica* (HEYDEN, 1870: 170)** | Spain (Asturias) |
| **ssp. *egelida* BECHYNÉ, 1952: 172** | Spain (Navarre) |
| **ssp. *gallica* (WEISE, 1882: 365)** | Pyrenees |
| ***ssp. *herii* (HERRICH-SCHAEFFER, 1839: Hf.157)** | Dalmatia, Albania, Bulgaria |
| **ssp. *italica* (WEISE, 1882: 365)** | Italy, S. France, Tirol |
| **ssp. *muchei* (MOHR, 1969: 390)** | Bulgaria |
| **ssp. *ottomana* (WEISE, 1906: 554)** | Turkey, S. Bulgaria, N. Greece |
| ***ssp. *pyrenaica* (DUFOUR, 1843: 106)** | Pyrenees |
| (*canfrancensis* BECHYNÉ, 1952: 172) | |
| (*carbonaria* SUFFRIAN, 1851: 49) | |
| ***wittmeri* L. MEDVEDEV, 1975: 13** | Turkey |
| (*guichardi* GRUEV, 1976: 77) | |

## Subgenus *Ovostoma* MOTSCHULSKY, 1860: 215

Type species: *Chrysomela coerulea* OLIVIER [*olivieri* BEDEL], by the original designation.

| | |
|---|---|
| ***atrovirens* (Frivaldszky, 1876: 338)** | S. Carpathians |
| ****globipennis* (Suffrian, 1851: 36)** | |
| ***s. str.*** | S.-E. Europe |
| **ssp. *deubeli* Bechyné, 1948: 14** | Transylvania |
| (*subalpina* Csiki, 1953: 129) | |
| **ssp. *euminuta* Bechyné, 1950: 64** | Slovakia |
| **ssp. *slovaca* Bechyné, 1946: 108** | Slovakia, Transylvania |
| (*collina* Csiki, 1953: 128) | |
| ****olivieri* (Bedel, 1892: 148)** | |
| ***s. str.*** | S., S.-E. Europe |
| (*caerula* Csiki, 1953: 128)<br>(*coerulea* Olivier, 1807: 515 nec Olivier, 1790: 718) | |
| **ssp. *azurea* Bechyné, 1946: 108** | Caucasus (Elbrus) |
| **ssp. *ehumerosa* Bechyné, 1950: 63** | Herzegovina |
| **ssp. *montanella* Bechyné, 1950: 63** | Balkan Pen. |
| **ssp. *veneta* J. Müller, 1948: 92** | N.-E. Italy, Krain |

**Subgenus *Palaeosticta* Bechyné, 1952: 361**

Type species: *Chrysomela diluta* Germar, by the original designation.

| | |
|---|---|
| ****diluta* (Germar, 1824: 591)** | S.-W. Europe |
| (*lurida* Olivier, 1807: 528 nec Scopoli, 1763: 70) | |
| ****kocheri* (Codina Padilla, 1961: 74)** | Morocco |
| ****numida* (Reiche, 1864: 245)** | Morocco, Algeria, Tunisia [remark 43] |

| | |
|---|---|
| ***pardoi* (CODINA PADILLA, 1961: 78)** | Morocco, Tunisia [remark 44] |
| ***ruffoi* (DACCORDI, 1971: 512)** | |
| ***s. str.*** | Libya |
| ***ssp. *benjaminica* (DACCORDI, 1971: 515)** | Israel, Palestine |

**Subgenus *Paracrosita* DACCORDI, 1982: 411**

Type species: *Chrysomela armeniaca* FALDERMANN, by the monotypy.

| | |
|---|---|
| ***armeniaca* (FALDERMANN, 1837: 355)** | Caucasus, W. Turkmenistan, Afghanistan, N.-W. Iran |
| (*iranica* L. MEDVEDEV, 1975: 17 nec JAKOB, 1954: 47) | |
| (*persica* JAKOB, 1960: 26 nec JOLIVET, 1951: 6) | |

**Subgenus *Paradiachalcoidea* DACCORDI, 1978: 745**

(*Paradiachalcoida* DACCORDI, 1978: 745, lapsus calami).

Type species: *Chrysolina vignai* DACCORDI, designated by DACCORDI, 1980.

| | |
|---|---|
| ***limbatella* (WEISE, 1907: 213)** | Ethiopia |
| (*copta* DACCORDI, 1978: 748) | |
| ***palmyrensis* BECHYNÉ, 1955: 350** [remark 45] | |
| ***s. str.*** | Israel, Lebanon |
| ***ssp. *assurensis* BECHYNÉ, 1955: 350** | Turkey, Iran, Iraq |
| ***silvanae* DACCORDI, 1978: 750** | Ethiopia |
| ***vignai* DACCORDI, 1978: 192** | Ethiopia |

**Subgenus *Paraheliostola* L. MEDVEDEV, 1992: 105**

Type species: *Chrysomela soiota* JACOBSON, by the monotypy.

***soiota* JACOBSON, 1924: 80** Sayan Mts.

**Subgenus *Paramenthastriella* DACCORDI, 1980: 300**

Type species: *Chrysolina beatricis* DACCORDI, by the original designation.

***beatricis* DACCORDI, 1980: 305** E. Africa

**Subgenus *Pezocrosita* JACOBSON, 1901: 120 [remark 46]**

Type species: *Crosita sahlbergiana* JACOBSON, by the original designation.

***altimontana* species group**
(type species *Ch. alimontana* RYBAKOV, 1889, present designation)

***altimontana* (RYBAKOW, 1889: 286)** N.-W. China

***amplicollis* (JACOBSON, 1895: 550)** N.-W. China

***borochorensis* LOPATIN, 2000: 133** China (Xinjiang)

***dalailamai* LOPATIN, 1998: 827** China (Qinghai)

***kozlovi* LOPATIN, 1988: 586** China (Qinghai)

***brevilata* species group**
(type species *Ch. brevilata* HEYDEN, 1886, present designation)

***brevilata* (HEYDEN, 1886: 277)** Kyrghyzstan, S. Kazakhstan

(*cyrtonastes* WEISE, 1892: 413)
(*cyrtonoides* WEISE, 1892: 139 nec JACOBY, 1885: 206)

***cyanopurpurea* (BALLION, 1878: 379)** [remark 47] N.-W. China

(*cyaneopurpurea* WEISE, 1916: 59, lapsus calami)

***daccordii* LOPATIN, 2000: 135** China (E. Tien Shan)

| | |
|---|---|
| ***juldusana* (LOPATIN, 1962: 321)** [remark 48] | Kyrghyzstan, N.-W. China, S.-E. Kazakhstan |
| ***ketmenica* (LOPATIN, 1970: 186)** [remark 48] | S.-E. Kazakhstan |
| ***koenigi* (JACOBSON, 1895: 552)**<br>(*katarinae* LOPATIN, 1965: 10) | Kyrghyzstan [remark 49], Tadzhikistan |
| ***oschanini* (LOPATIN, 1965: 9)** [remark 48]<br>(*oshanini* LOPATIN, 1970: 185, lapsus calami) | Kyrghyzstan, Kazakhstan |
| ***petrenkoi* LOPATIN, 1992: 69** | S.-E. Kazakhstan |
| ***sarcandica* LOPATIN, 1990: 49** | E. Kazakhstan |
| ***tekessica* LOPATIN, 2000: 136** | China (Xinjiang) |
| ***verestschaginae* LOPATIN, 1992: 68** | Kyrghyzstan, S. Kazakhstan |

***convexicollis* species group**
(type species *Ch. convexicollis* JACOBSON, 1901, present designation)

| | |
|---|---|
| ***convexicollis* (JACOBSON, 1901: 122)** | Tuva, Mongolia |
| ***urjanchaica* (JACOBSON, 1925: 50)** | Tuva |

***discriminata* species group**
(type species *Ch. discriminata* JACOBSON, 1901, present designation)

| | |
|---|---|
| ***discriminata* (JACOBSON, 1901: 124)**<br>(*fuscipes* WEISE, 1890: 479 nec GMELIN, 1790: 1672)<br>(*infuscipes* WEISE, 1916: 76) | E. Siberia, Mongolia |
| ***mongolensis* (LOPATIN, 1966: 238)** | Mongolia |

***helenae* species group**
(type species *Ch. helenae* LOPATIN, 1968, present designation)

| | |
|---|---|
| ***belousovi* LOPATIN, 2000: 132** | China (Xinjiang) |
| ****glebi* LOPATIN, 1988: 585** | W. Tien Shan |
| ****helenae* (LOPATIN, 1968: 548)** | W. Tien Shan |
| ****tshatkalica* (LOPATIN, 1970: 185)** | Kyrghyzstan |

***obovata* species group**
(type species *Ch. obovata* JACOBSON, 1895, present designation)

| | |
|---|---|
| ****almaatica* (LOPATIN, 1962: 322)** | S. Kazakhstan |
| ****bienkowskii* LOPATIN, 2000: 133** | China (Gansu) |
| ****burchana* LOPATIN, 1998: 829** | E. Tibet |
| (*burchanica* LOPATIN, 1998: 830, lapsus calami) | |
| ****kiritshenkoi* (LOPATIN, 1970: 185)** | Kyrghyzstan [remark 50] |
| ****mohri* (LOPATIN, 1970: 185)** | Tien Shan [remark 51] |
| ***naratica* LOPATIN, 2000: 134** | China (Xinjiang) |
| ****obovata* (JACOBSON, 1895: 553)** | Tien Shan |
| ****przewalskii* (JACOBSON, 1895: 551)** | China (Amdo) |
| ****yupeiyuae* LOPATIN, 1998: 829** | China (Qinghai) |

***roborowskii* species group**
(type species *Ch. roborowskii* JACOBSON, 1895, present designation)

| | |
|---|---|
| ****roborowskii* (JACOBSON, 1895: 550)** | N.-W. China |
| (*fallax* JACOBSON, 1895: 551) | |
| ****tani* LOPATIN, 1998: 830** | China |

***rufilabris* species group** [remark 52]
(type species *Ch. rufilabris* FALDERMANN, 1835, present designation)

| | |
|---|---|
| ***brunnicornis* (WEISE, 1887: 175)** | |
| ***s. str.** | Tuva, W. Mongolia |
| (*koshantschikovi* JACOBSON, 1925: 51) | |
| ***ssp. *bermani* L. MEDVEDEV, 1978: 119** | Yakutia, Chita reg [remark 53] |
| ***ssp. *vrangeliani* VORONOVA, 1985: 125** | Wrangel Isl. |
| ****lopatini* (MOHR, 1966: 103)** | Altai [remark 54], Buryat, Mongolia |
| ***luchti* LOPATIN, 2000: 130** | China (Xinjiang) |
| ****pusa* (LOPATIN, 1962: 323)** | Buryat, Mongolia |
| (*purkynei* MOHR, 1966: 103) | |
| ****rufilabris* (FALDERMANN, 1835: 443)** | E. Siberia, Mongolia |
| (*perfecta* JACOBSON, 1901: 124) | |
| ****sajanica* (JACOBSON, 1925: 52)** | Tuva |

***sahlbergiana* species group**
(type species *Ch. sahlbergiana* JACOBSON, 1901, present designation)

| | |
|---|---|
| ****cyaneovinosa* L. MEDVEDEV, 1978: 120** | Yakutia |
| ****medvedevi* (LOPATIN, 1970: 184)** | Kazakhstan |
| ****ordinata* (GEBLER, 1823: 119)** | E. Kazakhstan, S.-W. Siberia, Altai |
| ****sahlbergiana* (JACOBSON, 1901: 120)** | Sayan Mts., N. Mongolia |
| (*jacobsoni* LOPATIN, 1970: 183)<br>(*kuznetzowi* JACOBSON, 1902: 78 nec JACOBSON, 1897: 434) | |
| ****tibialis* (JACOBSON, 1895: 548)** | Sayan Mts., Tuva |

| | |
|---|---|
| ***tuvensis* L. MEDVEDEV, 1976: 243** | Tuva |
| ***undulata* (GEBLER, 1833: 308)** | |
| ***s. str.*** | S. Siberia |
| (*baicalica* MOHR, 1966: 96) | |
| **ssp. *asperata* LOPATIN, 1990: 54** | E. Kazakhstan |

**Subgenus *Pierryvettia* BECHYNÉ, 1950: 68**

Type species: *Chrysomela stictica* STAL, by the originaldesignation.

| | |
|---|---|
| ***aeneomicans* CHEN, 1934: 35** | Yunnan |
| ***annamensis* CHEN, 1934: 36** | Vietnam |
| ***auriventris* BECHYNÉ, 1950: 73** | Laos, Vietnam |
| ***baronii* DACCORDI, 1979: 443** | India |
| ***bowringii* (BALY, 1862: 96)** | S. China, Indochina |
| (*Colaphellus grouvellei* ACHARD, 1926: 130) | |
| (*niobe* STAL, 1860: 463) | |
| ***ceylonica* MAULIK, 1926: 20** | Sri Lanka |
| ***coerulipes* (HAROLD, 1874: 3417)** | India |
| (*orientalis* WIEDEMANN, 1819: 179 nec OLIVIER, 1807: 512) | |
| ***conglomerata* MAULIK, 1926: 21** | India |
| ***ferruginea* (HORNSTEDT, 1788: 2)** | Java |
| (*malaccensis* GMELIN, 1790: 1691) | |
| ***fulvoaenea* (JACOBY, 1900: 118)** | India |
| ***helferi* BECHYNÉ, 1950: 72** | Myanma |

| | |
|---|---|
| ***inconstans* (WIEDEMANN, 1823: 74)** | India, Sri Lanka |
| (*bonvouloiri* BALY, 1862: 23)<br>(*democratica* DUVIVIER, 1891: 43) | |
| ***jeanneli* CHEN, 1934: 37** | Yunnan |
| ***karachia* MAULIK, 1926: 21** | Pakistan (Sind) |
| ***lucidula* CHEN, 1934: 36** | Yunnan |
| (*cheni* BECHYNÉ, 1950: 72) | |
| ***madrasae* (JACOBY, 1900: 118)** | S. India |
| ***malayana* (JACOBY, 1896: 420)** | Sumatra |
| ***separata* (BALY, 1862: 96)**<br>***s. str.*** | India |
| (*aurata* SUFFRIAN, 1851: 102 nec MARSHAM, 1802: 195)<br>(*siamensis* JACOBY, 1900: 119) | |
| **ssp. *grutii* (BALY, 1862: 22)** | Myanma |
| **ssp. *foveopunctata* (FAIRMAIRE, 1888: 39)** | Yunnan, Laos |
| **ssp. *indosinensis* BECHYNÉ, 1950: 70** | Vietnam |
| ***shapaensis* L. MEDVEDEV, 1987: 71** | Vietnam |
| ***splendidula* (FABRICIUS, 1801: 440)** | Java, Sumatra |
| ***stevensi* (BALY, 1862: 23)** | Myanma |
| ***stictica* (STAL, 1857: 59)** | Java, Sumatra, Philippines (?) |
| ***sumatrensis* (JACOBY, 1884: 25)**<br>***s. str.*** | Sumatra |
| **ssp. *borneensis* BECHYNÉ, 1950: 69** | Kalimantan |

***tonkinea* (FAIRMAIRE, 1888: 372)** — N. Vietnam

***vitalisi* BECHYNÉ, 1950: 71** — Vietnam

**Subgenus *Pleurosticha* MOTSCHULSKY, 1860: 191**

Type species: *Chrysomela sylvatica* GEBLER, by the original designation.

****cavigera* (SAHLBERG, 1887: 35)** — Chukot Pen., Kamchatka, Alaska

***gebleri* L. MEDVEDEV, 1979: 83**
****s. str.*** — Altai

****ssp. sajanensis* L. MEDVEDEV, 1979: 84** — envir. Baikal

(*baicalica* L. MEDVEDEV et DUBESHKO, 1992: 107 nec MOHR, 1966: 96)

****latimargo* (WEISE, 1896: 80)** — Buryat, Mongolia

(*changaica* LOPATIN, 1968: 219)

***subcostata* (GEBLER, 1848: 27)**
****s. str.*** — Siberia, Far East, Hokkaido

(*pirka* TAKIZAWA, 1970: 118)

****ssp. poretzkyi* (JACOBSON, 1897: 434)** [remark 55] — Urals

****sylvatica* (GEBLER, 1823: 118)** — Altai

(*silvatica* L. MEDVEDEV et DUBESHKO, 1992: 106, lapsus calami)

****tolli* (JACOBSON, 1910: 54)** — Arctic Asia

(*rufipes* MÉNÉTRIÉS, 1851: tab. III, fig. 9 nec LINNAEUS, 1758)

***uraltuvensis* MIKHAILOV, 2000: 130**. — W. Sayans

**Subgenus *Pseudocrosita* LOPATIN, 1999: 891**

Type species: *Crosita* (*Bittotaenia*) *bactriana* LOPATIN, by the original designation.

| | |
|---|---|
| ***bactriana* (LOPATIN, 1961: 102)** | S. Tadzhikistan, Kyrghyzstan |
| (*globicollis* LOPATIN, 1970: 184) | |

**Subgenus *Pseudolithoptera* L. MEDVEDEV, 1970: 159**

Type species: *Chrysolina interlucea* L. MEDVEDEV, 1970, by the original designation.

| | |
|---|---|
| ***interlucea* L. MEDVEDEV, 1970: 159** | Korea |

**Subgenus *Pseudotaeniochrysea* DACCORDI, 1980: 300**

Type species: *Chrysomela superba* THUNBERG, 1787, by the original designation.

| | |
|---|---|
| ***ambrostomoides* BECHYNÉ, 1955: 205** | Rwanda |
| ***superba* (THUNBERG, 1787: 44)** | |
| ***s. str.*** | E., S. Africa |
| (*interversa* FAIRMAIRE, 1894: 394) | |
| (*limbolata* REICHE, 1850: 405) | |
| (*rubripennis* WEISE, 1904: 46) | |
| (*salisburiensis* JACOBY, 1901: 255) | |
| **ssp. *gandensis* BECHYNÉ, 1953: 83** | Congo |
| **ssp. *immetallica* (ACHARD, 1924: 106)** | Congo |
| **ssp. *impunctulata* (ACHARD, 1924: 105)** | Congo |

**Subgenus *Pseudotimarchomima* DACCORDI, 1980: 300**

Type species: *Chrysolina luminosa* DACCORDI, by the original designation.

***luminosa* DACCORDI, 1976: 1014** Tanzania

**Subgenus *Rhyssoloma* WOLLASTON, 1854: 458**

Type species: *Chrysomela fragariae* WOLLASTON, by the monotypy.

***fragariae* (WOLLASTON, 1854: 458)** Madeira

(*onychina* WOLLASTON, 1860: 459)

**Subgenus *Sibiriella* L. MEDVEDEV, 1999: 1014**

Type species: *Chrysolina paradoxa* L. MEDVEDEV, by the original designation.

***capricornus* MIKHAILOV, 2000: 139** W. Altai

***paradoxa* L. MEDVEDEV, 1999: 1014** [remark 56] Sayan Mts. ?

(*martjanovi* GUSELNIKOV et L. MEDVEDEV, 1976: 23, nomen nudum)

**Subgenus *Sphaeromela* BEDEL, 1899: 258**

Type species: *Chrysomela varians* SCHALLER, by the monotypy

***varians* (SCHALLER, 1783: 271)**
***s. str.*** Europe, Siberia

(*aethiops* FABRICIUS, 1792: 309)
(*centaura* HERBST, 1783: 56)
(*centaurei* FABRICIUS, 1787: 68)
(*hyperici* THOMSON, 1866: 251 nec FORSTER, 1771: 20)
(*margarita* OLIVIER, 1790: 709)
(*marshami* DONOVAN, 1798: t. 286)
(*ooensis* WEISE, 1916: 83)
(*pratensis* WEISE, 1884: 429)
(*subaenea* SUFFRIAN, 1851: 60 nec DUFTSCHMID, 1825: 194)
(*viridiaenea* MARSHAM, 1802: 184)

| | |
|---|---|
| **ssp. *malleti* JACQUET, 1935: 95** | France |
| **ssp. *nigricollis* MALLET, 1936: 141** | France |

**Subgenus *Stichoptera* MOTSCHULSKY, 1860: 209**

(*Cobosorina* DAVID, 1953, type species: *Chrysochloa colasi* COBOS, by the monotypy).

(*Ovomorpha* MOTSCHULSKY, 1860: 213, type species: *Chrysomela rossii* SUFFRIAN [*rossia* ILLIGER], by the original designation).

Type species: *Chrysomela sanguinolenta* LINNAEUS, 1758, by the original designation.

| | |
|---|---|
| ***colasi* (COBOS, 1952: 5)** | Spain (Sierra Nevada) |
| ***grancanariensis* (LINDBERG, 1953: 11)** | Canaries |
| ***gypsophilae* (KÜSTER, 1845: 71)** | |
| ***s. str.*** | Europe, Asia Minor |
| (*gaubili* LUCAS, 1849: 535) | |
| (*rufomarginata* SUFFRIAN, 1851: 65) | |
| ***ssp. *grossepunctata* (LINDBERG, 1950: 13)** | Canaries |
| ***ssp. *lucidicollis* (KÜSTER, 1845: 73)** | Sardinia, Sicilia, N. Africa, Canaries, Asia Minor, Armenia |
| ***jacobyi* (BALY, 1878: 38)** | China |
| ***kuesteri* (HELLIESEN, 1912: 7)** | |
| ***s. str.*** | Europe |
| ***ssp. *friderici* (WAGNER, 1927: 111)** | Iberian Penins. |
| ***latecincta* (DEMAISON, 1896: 12)** | |
| ***s. str.*** | S.-E. France |
| **ssp. *decipiens* (FRANZ, 1938: 207)** | Pyrenees, Austria |

| | |
|---|---|
| **ssp. *graja* (Franz, 1938: 208)** | Alps |
| ***ssp. *hellieseni* Silfverberg, 1977: 93** | S.-E. Norway |
| (*crassicornis* Helliesen, 1912: 7 nec Fabricius, 1775: 99) | |
| **ssp. *holdhausi* (Franz, 1949: 11)** | Switzerland |
| **ssp. *hustachei* (Laboissiere, 1939: 128)** | France |
| **ssp. *intermedia* (Franz, 1938: 250)** | Great Britain, Alps |
| **ssp. *laboissierei* Bechyné, 1952: 377** | Pyrenees |
| **ssp. *norica* (Holdhaus, 1914: 126)** | C. Alps |
| **ssp. *raetica* (Franz, 1938: 252)** | N. Alps |
| **ssp. *rufohumeralis* (Pic, 1939: 26)** | Pyrenees |
| **ssp. *sierrana* (Franz, 1958: 127)** | Spain (Sierra de Guadarrama) |
| **ssp. *tarragonensis* Bechyné, 1950: 140** | Spain (S. Catalonia) |
| **ssp. *vallesiaca* (Franz, 1949: 12)** | Switzerland |
| ***mactata* (Fairmaire, 1859: 152)** | |
| ***s. str.** | Portugal, France, Spain |
| ***ssp. *insignis* (Breit, 1920: 81)** | Spain (Asturias) |
| ***pavlenkoi* (Jacobson, 1924: 82)** | Primorski Krai |
| ****rossia* (Illiger, 1802: 415)** | C., S.-E. Europe |
| (*limitata* Küster, 1845: 72) (=*gypsophilae* x *rossia*)<br>(*mancinii* Müller, 1924: 118)<br>(*rossii* Suffrian, 1851: 38) | |
| ****sanguinolenta* (Linnaeus, 1758: 371)** | W. Palaearctic |

(*breiti* FRANZ, 1938: 254)
(*distinguenda* STEPHENS, 1831: 344)
(*epipleurica* REITTER, 1913: 110)
(*marginalis* DUFTSCHMID, 1825: 182)
(*morvennensis* MEQUIGNON, 1945: 29)
(*porosa* GEBLER, 1830: 217)
(*richteri* ROUBAL, 1934: 38)
(*rubromarginata* DEGEER, 1775: 298)
(*sanguinea* BRULLÉ, 1838: 73) ?

***stachydis* (GENE, 1839: 79)** S. Europe

***variolosa* (PETAGNA, 1819: 19)** Sicilia, S. Italy

(*melanostigma* HERRICH-SCHAEFFER, 1839: Hf.157)
(*sicula* LEFEBURE, 1827: 104)
(*sparshalli* STEPHENS, 1835: 425)

### Subgenus *Sulcicollis* J. SAHLBERG, 1913: 247

(*Hoplosoma* MOTSCHULSKY, 1860: 211 nec AGASSIZ, 1846, type species: *Chrysomela lamina* FABRICIUS [*oricalcia* MÜLLER], by the original designation)

(*Minckia* STRAND, 1935: 292, nom. nov. for *Hoplosoma* MOTSCHULSKY nec AGASSIZ) **Syn. nov.** [remark 57]

Type species: *Chrysomela chalcites* GERMAR, by the monotypy.

***chalcites* (GERMAR, 1824: 587)** Europe, Daghestan, Syria

(*chalcitis* SUFFRIAN, 1851: 121)
(*festiva* MÉNÉTRIÉS, 1832: 235)

***oricalcia* (MÜLLER, 1776: 82)** Europe

(*austriaca* OLIVIER, 1790: 717)
(*bicolor* GABRIEL, 1902: 60 nec FABRICIUS, 1775: 95)
(*bulgarensis* SCHRANK, 1781: 70)
(*bulgarnensis* BEDEL, 1892: 144)
(*dieneri* MERKL, 1897: 209)
(*hobsoni* STEPHENS, 1831: 343)
(*incrassata* MARSHAM, 1802: 186)
(*laevicollis* OLIVIER, 1807: 519)

(*lamina* FABRICIUS, 1792: 311)
(*olivacea* SCHALLER, 1783: 272)
(*orichalcea* GMELIN, 1790: 1686)

***peregrina* (HERRICH-SCHAEFFER, 1839: Hf.157)**
***s. str.*** S. Europe

(*erythromera* LUCAS, 1849: 534)
(*meridionalis* HERRICH-SCHAEFFER, 1839: Hf. 157) ?
(*oberndorferi* BRENSKE, 1890: 14)
(*schotti* SUFFRIAN, 1851: 39)

**ssp. *impavida* BECHYNÉ, 1949: 54** Asia Minor, Israel, Rhodes

***rufoaenea* (SUFFRIAN, 1851: 122)** S., W. Europe

(*fallaciosa* WEISE, 1884: 401)

**Subgenus *Synerga* WEISE, 1900: 283**

(*Chrysonotum* J. SAHLBERG, 1913: 247, type species not designated) **Syn. nov.** [remark 25]
(*Menthastriella* BECHYNÉ, 1950: 74, type species: *Chrysomela herbacea* DUFTSCHMID, by the original designation) **Syn. nov.**

Type species: *Chrysomela bella* JACOBY, by the original designation.

***coerulans* (SCRIBA, 1791: 286)**
***s. str.*** C., E. Europe

(*oblonga* DUFTSCHMID, 1825: 188)
(*olivaceonigra* FLEISCHER, 1892: 141)
(*starhorni* REITTER, 1912: 118)
(*violacea* PANZER, 1797: 8 nec MÜLLER, 1776: 81)
(*vitellina* SCHRANK, 1781: 73)

**ssp. *angelica* (REICHE et SAULCY, 1858: 33)** Syria

**ssp. *bella* (JACOBY, 1890: 253)** N., E. India, Pakistan, W. China

**ssp. *iranica* (JAKOB, 1954: 47)** W. Iran, Afghanistan

| | |
|---|---|
| **ssp. *piffli* (Lopatin, 1967: 325)** | Pakistan |
| ***ssp. *relicta* L. Medvedev, 1977: 35** | Ekaterinburg reg. |
| ***ssp. *splendorifera* (Motschulsky, 1860: 226)**<br>(*subfastuosa* Motschulsky, 1860: 226) | Caucasus, Iran, Iraq, Turkmenistan |
| ***ssp. *uzbekorum* Bechyné, 1950: 78** | Caucasus, Uzbekistan, N. Afghanistan |
| ****herbacea* (Duftschmid, 1825: 192)** | |
| ***s. str.*** | Europe, Siberia |
| (*blanda* Motschulsky, 1860: 226)<br>(*cribellata* Motschulsky, 1860: 226 nec Suffrian, 1851:46)<br>(*croatica* Weise, 1884: 426)<br>(*fulgida* Motschulsky, 1860: 226 nec Fabricius, 1801: 432)<br>(*fulminans* Suffrian, 1851: 92)<br>(*ignita* Suffrian, 1851: 94 nec Olivier, 1807: 524)<br>(*mariannae* Gistl, 1857: 595)<br>(*menthastri* Suffrian, 1851: 90)<br>(*meridionalis* Jolivet, 1951: 472 nec Herrich-Schaeffer, 1839: Hf. 157)<br>(*resplendens* Suffrian, 1855: 144)<br>(*rugicollis* Weidenbach, 1859: 84)<br>(*semiglobosa* Reineck, 1922: 80) | |
| **ssp. *alacris* Bechyné, 1950: 77** | Asia Minor |
| **ssp. *caucasica* (Motschulsky, 1860: 225)** | Caucasus |
| **ssp. *recticollis* (Motschulsky, 1860: 225)** | Armenia, Asia Minor |
| **ssp. *talyshana* Bechyné, 1950: 77** | Talysh, Elbrus |
| ****suffriani* (Fairmaire, 1859: 282)** | Corsica, Sardinia |
| ***viridana* (Küster, 1844: 85)** | |
| ***s. str.** | Corsica, Sardinia, England |

(*aurocuprea* FAIRMAIRE, 1859: 282)
(*cupreopurpurea* Costa, 1838: 49)
(*ignita* OLIVIER, 1807: 524) ?
(*palustris* SUFFRIAN, 1851: 96)
(*sardea* WEISE, 1884: 426)

***ssp. *chloris* (LUCAS, 1849: 537)** N. Africa, S. Spain, S. Italy, Sicily, Baleares

## Subgenus *Taeniochrysea* BECHYNÉ, 1950: 87

Type species: *Chrysomela americana* LINNAEUS, by the original designation.

******americana* **(LINNAEUS, 1758: 392)** S. Europe

(*barbarica* GMELIN, 1790: 1683)
(*decemstriata* GOEZE, 1777: 301)
(*desdoueti* MARSEUL, 1887: 103)
(*lesinae* WEISE, 1884: 411)
(*nitidula* FOURCROY, 1785: 108)
(*striata* VOET, 1806: 42 nec FABRICIUS, 1781: 122)
(*ubertini* MARSEUL, 1887: 104)

## Subgenus *Taeniosticha* MOTSCHULSKY, 1860: 207

Type species: *Chrysomela lurida* LINNAEUS [*reitteri saxonica* SILFVERBERG], by the original designation.

******alatavica* **(JACOBSON, 1910: 58)** Tien Shan

***dohrnii* (FAIRMAIRE, 1865: 81)**
***s. str.*** Lebanon

(*libanicola* MARSEUL, 1868: 212)

**ssp. *peyroni* (ANCEY, 1876: 94)** Lebanon

******dzhungarica* **(JACOBSON, 1910: 58)** [remark 58] Tien Shan

| | |
|---|---|
| ***imperfecta* (Breit, 1920: 82)** | |
| ****s. str.*** | Turkmenistan, Iran, Caucasus [remark 59] |
| (*kaltenbachi* Jakob, 1954: 46) | |
| **ssp. *plusquamperfecta* Bechyné, 1952: 377** | Afghanistan |
| ****koktumensis* Lopatin et Kulenova, 1987: 39** [remark 60] | S.-E. Kazakhstan |
| ****kuldzhensis* Lopatin, 1976: 113** | Tien Shan, W. China |
| ****reitteri* (Weise, 1884: 163)** | |
| ***s. str.*** | N.-W. Georgia |
| **ssp. *bakuensis* Bechyné, 1952: 377** | Armenia, Azerbaijan |
| **ssp. *fageli* Bechyné, 1957: 2** | Italy |
| **ssp. *jailensis* Bechyné, 1952: 376** | Crimea |
| **ssp. *lineata* Papp, 1946: 23** | Hungary, Banat, Temesvar |
| **ssp. *mangaliana* Bechyné, 1952: 376** | Bulgaria, Rumania |
| **ssp. *nevesinjensis* Bechyné, 1952: 376** | Bosnia, Bulgaria |
| **ssp. *obscurefacta* Bechyné, 1952: 376** | Italy |
| **ssp. *pseudolurida* (Roubal, 1917: 3)** | W. Caucasus, Asia Minor |
| **ssp. *saxonica* Silfverberg, 1977: 93** | Europe, Kazakhstan, Sayan Mts. |
| (*diluta* Krynicki, 1832: 171 nec Germar, 1824: 591) **Syn. nov.** [remark 61] (*lurida* Linnaeus, 1767: 590 nec Scopoli, 1763: 70) | |
| **ssp. *sequana* Silfverberg, 1977: 3** | France |
| (*striata* Fourcroy, 1785: 105 nec Fabricius, 1781: 122) | |
| ***samarensis* Bechyné, 1950: 137** | Volga basin (Samara) |

| | |
|---|---|
| ***taygetana* Bechyné, 1952: 374** [remark 62] | Greece |
| ***tianshanica* (Jacobson, 1910: 59)** | Tien Shan |

**Subgenus *Threnosoma* Motschulsky, 1860: 213**

Type species: *Chrysomela helopioides* Suffrian, by the original designation.

| | |
|---|---|
| ***afra* (Erichson, 1841: 190)** | |
| ***s. str.** | Algeria, Morocco |
| ***ssp. *maritima* (Peyerimhoff, 1938: 53)** | Algeria |
| ***anceyi* (Marseul, 1868: 211)** | |
| ***s. str.** | Palestine, Syria |
| **ssp. *pluscula* Bechyné, 1950: 52** | Mesopotamia, Iraq |
| **ssp. *winkleri* (Breit, 1919: 18)** | Syria |
| ***arambourgi* (Peyerimhoff, 1938: 52)** | Algeria |
| ***cribrosa* (Ahrens, 1812: 1)** | |
| ***s. str.** | C. Europe |
| (*lucidala* Apfelbeck, 1912: 248) | |
| ***ssp. *sirentensis* (Meier, 1900: 78)** | Italy |
| (*maestitialis* Bechyné, 1950: 55) | |
| ***fimbrialis* (Küster, 1845: 14)** | |
| ***s. str.** | C. Europe |
| (*hungarica* Fuss, 1861: 1)<br>(*molluginis* Redtenbacher, 1849: 544 nec Brahm, 1790: 226) | |
| **ssp. *avulsa* Bechyné, 1946: 106** | Bosnia, Dalmatia, Croatia |
| (*rufocingulata* Csiki, 1953: 129) | |

| | |
|---|---|
| **ssp. *langobarda* Daccordi et Ruffo, 1979: 307** | Italy |
| ***helopioides* (Suffrian, 1851: 12)** | |
| ****s. str.*** | Andalusia, Algeria |
| **ssp. *korbi* (Weise, 1891: 149)** | Andalusia |
| ***inflata* (Weise, 1916: 76)** | |
| ****s. str.*** | Sicilia, S. Italy, Tunisia |
| (*atra* Herrich-Schaeffer, 1839: Hf.157 nec Goeze, 1777: 301) | |
| ***ssp. *vitiosa* Bechyné, 1950: 57** | Tunisia |
| ***joliveti* Bechyné, 1950: 56** | France |
| ***mairei* (Peyerimhoff, 1928: 41)** | |
| ***s. str.*** | Morocco |
| **ssp. *pauliani* (Peyerimhoff, 1939: 34)** | Morocco |
| ***obenbergeri* Bechyné, 1950: 54** | Rumania |
| ****obscurella* (Suffrian, 1851: 11)** | |
| ***s. str.*** | Italy, S. France |
| (*pelagica* Chevrolat, 1863: 120) | |
| **ssp. *remigrata* Bechyné, 1950: 57** | Italy |
| ***osellai* Daccordi et Ruffo, 1979: 308** | Italy |
| ***rubricus* (Desbrochers des Loges, 1899: 44)** | Algeria |
| ****scorodon* (Marseul, 1886: 12)** | Algeria |
| ***serdanensis* Jolivet, 1966: 128** | Morocco |
| ***solata* (Fairmaire, 1879: 218)** | Algeria |
| ****tagana* (Suffrian, 1851: 9)** | Spain, Portugal |

***tangeriana* (KOCHER, 1958: 43)** Morocco

(*tortipennis* PEYERIMHOFF, 1938: 55 nec FAIRMAIRE, 1865: 72)

****tortipennis* (FAIRMAIRE, 1865: 72)** Algeria

(*extricata* BECHYNÉ, 1950: 57)
(*pertusa* FAIRMAIRE, 1865: 73)

****weisei* (FRIVALDSZKY, 1883: 16)** Rumania

### Subgenus *Timarchomela* ACHARD, 1922: 17

Type species: not designated.

***aeneolucens* (ACHARD, 1922: 17)** China (Yunnan)

(*melanaspis* ACHARD, 1922: 18)

***costulata* (ACHARD, 1922: 18)** China (Yunnan)

***dalia* CHEN et WANG, 1984: 170** China (Yunnan)

### Subgenus *Timarcholina* BECHYNÉ, 1950: 66

Type species: *Chrysomela templetoni* BALY, by the original designation.

***andrewesi* (JACOBY, 1903: 95)** India

***carinata* (JACOBY, 1903: 94)** India

****clavareaui* (CHEN, 1933: 381)** India

***janczyki* DACCORDI, 1980: 74** India

***krishnu* (BALY, 1862: 21)** Myanma

***longicornis* MAULIK, 1926: 19** India

***mauliki* BECHYNÉ, 1950: 68** Sri Lanka

***semifulva* (JACOBY, 1893: 106)** — India

***templetoni* (BALY, 1862: 93)** — Sri Lanka

(*gahani* JACOBY, 1899: 81)
(*jole* STAL, 1860: 463)

### Subgenus *Timarchoptera* MOTSCHULSKY, 1860: 188

Type species: *Chrysomela haemochlora* GEBLER, by the original designation.

***haemochlora* (GEBLER, 1823: 120)** — W. Siberia, Mongolia, Altai, Transbaikalia

(*hemichlora* GERMAR, 1824: 591)
(*rubra* MOTSCHULSKY, 1845: 109)

### Subgenus *Vittatochrysa* LOPATIN, 1977: 145

Type species: *Chrysomela nigrovittata* BALLION, by the monotypy.

***nigrovittata* (BALLION, 1878: 380)** — C. Asia, N.-W. China

### Species of uncertain position

***bruneli* (DEMAISON, 1896: 12)** [remark 67] — Turkey

(*concolor* DEMAISON, 1896: 12)
(*nebulosa* DEMAISON, 1896: 12)

***dhaulagirica* L. MEDVEDEV, 1990: 12**
***s. str.*** — Nepal

**ssp. *arunensis* L. MEDVEDEV, 1992: 386** — Nepal

***dohertyi* MAULIK, 1926: 20** [remark 63] — Vietnam, S.-W. China, Myanma

***fascinatrix* LOPATIN, 1998: 831** — N.-W. Yunnan

***kinabaluensis* BECHYNÉ, 1952: 373** [remark 64] — Kalimantan

| | |
|---|---|
| ***ocelligera* (Clavareau, 1909: 392)** | Africa (Umbugwe) |
| ***pieli* Chen, 1936: 96** | China (Jiangxi) |
| ****seriepunctata* (Weise, 1887: 176)** [remark 66] | Amur reg., Primorski Krai |
| ***villiersi* (Peyerimhoff, 1939: 34)** [remark 65] | |
| ***s. str.*** | C. Morocco |
| ***ssp. *ruficornis* (Kocher, 1953: 95)** | E. Morocco |
| **ssp. *siruense* (Kocher, 1953: 95)** | W. Morocco |

SPECIES UNKNOWN TO ME

Africa

| | |
|---|---|
| ***africana* (Jacoby, 1898: 241)** | S. Africa |
| ***corrugata* (Peringuey, 1892: 87)** | S. Africa |
| ***decempustulata* (Thunberg, 1787: 44)** | S. Africa |
| ***eburneipennis* (Clark, 1864: 118)** | S. Africa |
| ***plagioderoides* (Vogel, 1871: 95)** | S. Africa |
| ***postviolacea* (Marseul, 1887: 100)** | Algeria |
| ***ruginosa* (Fairmaire, 1873: 356)** | Algeria |
| ***transvalense* (Jacoby, 1901: 253)** | S. Africa |

Asia

| | |
|---|---|
| ***fuyunica* Chen, 1961: 430** | |
| ***s. str.*** | China (Sinkiang) |
| **ssp. *alta* Chen, 1961: 431** | China (Sinkiang) |
| ***kamali* Abdullah et Qureshi, 1969: 107** | Pakistan |
| ***nushana* Chen et Wang, 1984: 170** | China (Yunnan) |
| ***punjabiensis* Abdullah et Qureshi, 1969: 107** | Pakistan |
| ***taibaica* Chen, 1961: 431** | China (Chensi) |
| ***zhongdiana* Chen et Wang, 1984: 171** | China (Yunnan) |

Canaries

| | |
|---|---|
| ***fortunata* (Wollaston, 1864: 402)** | |

Nomina oblita

| | |
|---|---|
| ***ambulans* (Faldermann, 1835: 106)** | Siberia (Irkutsk) |
| ***corrosa* (Küster, 1845: 73)** | Sardinia |
| ***hochhuthi* (Suffrian, 1851: 72)** | Middle Asia, Siberia |
| ***liturata* (Swartz, 1808: 241)** | ? |
| ***nepalensis* (Hope, 1831: 30)** | Nepal |
| ***perforata* (Redtenbacher, 1848: 557)** (nec Gebler, 1830: 216) | Kashmir |
| ***praticola* (Duftschmid, 1825: 173)** | Austria |
| ***rufomarginata* (Baly, 1879: 191)** (nec Suffrian, 1851: 65) | Mesopotamia |
| ***teichophila* (Csiki, 1901: 117)** (*trichophila* Chen, 1936: 72, lapsus calami) | China |
| ***undata* (Fabricius, 1787: 55)** | S. Africa |
| ***urbana* (Csiki, 1901: 117)** | Siberia |

Species transferred to *Chrysolina* after publication of the coleopterorum Catalogus (Weise 1916)

***Chrysomela analis* Linnaeus, 1767** was erroneously included by Weise (1916) in the genus *Hydrothassa* Thomson, 1866, and later transferred to *Chrysomela* (*Chrysolina*) by Mader (1931).

***Crosita alaschanica* Jacobson, 1898** and ***C. przewalskyi* Jacobson, 1898** were transferred to *Chrysolina* by Medvedev (1976).

***Crosita kuznetzowi* Jacobson, 1902** was transferred to *Chrysomela* (*Chrysolina*) by Kontkanen (1957).

***Crosita sahlbergiana* Jacobson, 1901** was transferred to *Chrysomela* (*Chrysolina*) by Jacobson (1925).

***Crosita concinna* Weise, 1894** was synonymized with *Chrysolina rugulosa* (Gebler, 1841) by Lopatin (1975).

***Crosita jakowlewi* Weise, 1894** was transferred to *Chrysolina* by Medvedev & Korotyaev (1976).

***Iscadida ornata* Baly, 1876** was transferred to *Chrysolina* by Bechyné (1954).

***Chrysochloa colasi* Cobos, 1952** was transferred to *Chrysolina* by Kuhnelt (1983).

***Colaphellus grouvellei* Achard, 1926** was synonymized with *Chrysolina bowringii* by Gressitt & Kimoto (1963).

***Chrysomela ocelligera* Clavareau, 1909** (Africa) was transferred by Weise (1916) to the genus *Ageniosa* Weise, 1908. Later, Burgeon (1941) examined the type of this species and retransferred it to *Chrysolina*.

## SPECIES EXCLUDED FROM CHRYSOLINA AFTER PUBLICATION OF THE COLEOPTERORUM CATALOGUS (WEISE 1916)

***Chrysomela acaciae* LEA, 1916** (Australia) was transferred by SELMAN (1977) to the genus *Starycea* SELMAN, 1977.

***Chrysomela balyi* JACOBY, 1893: 106** (S. India) was transferred by MAULIK (1926) to the genus *Humba* CHEN, 1934 (*Eumela* BALY, 1875).

***Chrysolina blaisdelli* VAN DYKE, 1938** (Alaska) was transferred by BROWN (1956) to the genus *Chrysomela* LINNAEUS, 1758 (*Melasoma* STEPHENS, 1831).

***Chrysomela caffra* THUNBERG, 1821** (S. Africa) was transferred by BECHYNÉ (1948) to the genus *Sphaeratrix* GISTL, 1848 (*Monardita* BECHYNÉ, 1948).

***Chrysomela cyrtonoides* JACOBY, 1885: 206** (Japan) was transferred by CHEN (1936) to the genus *Potaninia* WEISE, 1889.

***Chrysolina engelhardti* HATCH, 1939** (Alaska) was transferred by BROWN (1956) to the genus *Chrysomela* (*Melasoma*).

***Chrysomela gabonensis* VOGEL, 1871** (Africa) was transferred by BECHYNÉ (1948) to the genus *Sphaeratrix*.

***Chrysomela indica* JACOBY, 1893: 105** is considered here as a member of the genus *Timarchomima* [remark 68].

***Chrysomela intercoxalis* LEA, 1916** (Australia) was synonymized with *Starycea intemerata* (LEA, 1902) by SELMAN (1977).

***Chrysomela modesta* FABRICIUS, 1792** (China, Himalaya) is a member of a eumolpine genus *Eurypelta* LEFEVRE, 1885 - after DACCORDI (1976).

***Chrysomela mulsa* Weise, 1904** (Africa) wass transferred by BECHYNÉ (1948) to the genus *Sphaeratrix*.

***Chrysomela mutabilis* HOPE, 1831** (Iran, India, China) was synonymized (MAULIK 1936) with *Gallerucida rutilans* HOPE, 1831.

***Chrysomela opulenta* REICHE, 1850** (Africa) (with subspecies: *obesa* VOGEL, 1871 and *cupreolineata* WEISE, 1904 and synonyms: *ponderosa* GERSTAECKER, 1873, *reichei* VOGEL, 1871, *sansibarica* HAROLD, 1880, *semiviolacea* JACOBY, 1895, and *tieutaini* FAIRMAIRE, 1891) was transferred by BECHYNÉ (1948) to the genus *Sphaeratrix*.

***Chrysomela pubiceps* LEA, 1916** (Australia) was transferred by SELMAN (1977) to the genus *Starycea* SELMAN, 1977.

***Chrysomela pyrrhopyga* STAL, 1857** (India) was synonymized with *Humba cyanicollis* (HOPE, 1831) by KIMOTO & GRESSITT (1981).

***Chrysomela scutellaris* LINNEL, 1896** (E. Africa) was synonymized with *Ceralces variabilis* GESTRO, 1895 by DACCORDI (1980).

***Chrysomela speciosa* LINNAEUS, 1767** is the type species of the genus *Oreina* CHEVROLAT, 1837 according to BONTEMS (1981).

## NON *CHRYSOLINA*

A number of species described in the 20th century under the generic name *Chrysomela* actually belong to *Chrysolina* as well as to several unrelated genera:

***Chrysomela adamsi insularis* CHÛJÔ, 1940** (Japan) and ***Chrysomela adamsi placida* CHEN, 1934** (China) are the members of the genus *Linaeidea*.

***Chrysomela bilineata* BRAYAN, 1940** (Sierra Leone), ***Ch. keniae* BRAYAN, 1940** (Kenya), ***Ch. knabi knabi* BROWN, 1956**, ***Ch. crotchi* BROWN, 1956**, ***Ch. invicta* BROWN, 1956**, ***Ch. alnicola alnicola* BROWN, 1956**, ***Ch. alnicola interna* BROWN, 1956**, ***Ch. alnicola littorea* BROWN, 1956**, ***Ch. walshi* BROWN, 1956**, ***Ch. falsa* BROWN, 1956**, ***Ch. laurentia* BROWN, 1956**, ***Ch. semota* BROWN, 1956**, ***Ch. knabi hesperia* BROWN, 1961**, ***Ch. sonorae* BROWN, 1966** from N. America, ***Ch. wrangeliana* L. MEDVEDEV, 1973** (Wrangel Isl.), and ***Ch. taimyrensis* L. MEDVEDEV, 1969** are members of the genus *Chrysomela* L. (*Melasoma* STEPH.).

***Chrysomela multimaculata* LEA, 1929** (Australia) represents an undescribed genus (Dr. Ch. REID, personal communication)

***Chrysomela nitida* PHILIPP., 1864** (Chile), ***Ch. obscurata* PHILIPP., 1864** (Chile), and ***Ch. quadristriata* PHILIPP., 1864** (Chile) are obviously not CHRYSOLINA because this genus is not represented in S. America.

***Chrysomela carbonata* BOISDUVAL, 1835** (Australia) is obviously not *Chrysolina*. This species is unrecognized by recent Australian authors (Dr. Ch. REID, personal communication).

***Chrysomela duperreyi* MONTROUZIER, 1857** (New Caledonia) is obviously not *Chrysolina* (Dr. Ch. REID, personal communication). This name was not mentioned by anyone since the original description.

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## INDEX OF LATIN NAMES

Abbreviations:
(hom.) - junior homonym
(sgen.) - subgenus
(ssp.) - subspecies
(syn.) - junior synonym

abchasica 158
acaciae 201
acervata 174
acuticollis (syn.) 157
adamsi (ssp.) 164
adspergata (syn.) 174
adzhalamica (ssp.) 147
adzharica 158
aegyptiaca 132, 164
aenea (syn.) 165
aeneipennis 112, 148
aeneipennis (hom.) 148
aeneolucens 197
aeneomicans 183
aerea (syn.) 159
aeruginosa 138
aeruginosa (hom.) 124, 169
aethiops (syn.) 187
affinis 171
afra 195
africana 199
Ageniosa (gen.) 200
ahena (ssp.) 167
aino 142
alacris (ssp.) 192
alaiensis (ssp.) 116, 151
alaschanica 118, 119, 120, 154, 200
alatavica 130, 131, 132, 193
aleppensis (ssp.) 164
allobrogorum (ssp.) 159
Allochrysolina (sgen.) 137
Allohypericia (sgen.) 138
almaatica 181
alnicola 202
alpina (ssp.) 138
alta (ssp.) 199
altaica 113
Altailina (sgen.) 140
alternans (hom.) 157
alternans (syn.) 144
alternata (syn.) 170
altiatlantica (ssp.) 153
altimontana 179
amasiensis 150
ambigua (syn.) 169
ambrostomoides135, 186
ambulans 200
americana 135, 193
amethystina (syn.) 140
amplicollis 179
analis 113, 114, 150, 200
anatolica 168
anceyi 195
andorrensis (ssp.) 165
andrewesi 197
angelica (ssp.) 191
angolensis 166
angusticollis 142
annamensis 183
Anopachys (sgen.) 140
antoinei (ssp.) 153
approximata (syn.) 169
apsilaena 122, 158
Apterosoma (sgen.) 142
arambourgi 195
arctica 138
Arctolina (sgen.) 111, 142
armeniaca 178
artemisiae (ssp.) 165
arthritica (ssp.) 156
arunensis (ssp.) 198
asclepiadis (ssp.) 141
asperata (ssp.) 183
assurensis (ssp.) 120, 127, 1787
assyrica (ssp.) 126, 175
atasica (ssp.) 112

Atechna (sgen.) 111, 144
Athecna (syn.) 144
atlantica 171
Atlasiana (sgen.) 147
atra Herrich-Schaeffer (hom.) 196
atra Matzek (hom.) 162
atra (syn.) 157
atrata (syn.) 157
atrovirens 126, 177
auraria (ssp.) 165
aurata (hom.) 184
aurichalcea 140
auripennis 109, 110, 139
auriventris 183
aurocuprea (syn.) 193
ausonia (syn.) 155
austriaca (syn.) 190
aveyronensis 126, 172
avia (syn.) 160
avulsa (ssp.) 195
azurea (ssp.) 177
bactriana 186
badakhshanica 164
baetica 172
baicalica (hom.) 185
baicalica (syn.) 183
bakuensis (ssp.) 194
balanyensis (ssp.) 172
ballioni 142
balyi 201
banatica (hom.) 159
banatica (ssp.) 159
bankii 155
banksi (lapsus calami) 155
bannikovae (syn.) 143
bannikovay (lapsus calami) 143
barbarica (syn.) 193
bargusiana (ssp.) 172
baronii 183
barrosi (syn.) 174
basilaris 109, 110, 139
bavarica (ssp.) 159
beatricis 135, 179
bechynea (sgen.) 147
bechyneana (ssp.) 159
bechynei 150
Bechynia (sgen.) 147
bella (ssp.) 191
belousovi 181
benjaminica (ssp.) 178
bermani (ssp.) 129, 130, 182
bertiae 166
besseri (syn.) 163
bicolor 150
bicolor Gabriel (hom.) 190
bicolor Germar (hom.) 176
bienkowskii 181
bifoveolata (syn.) 169
bigorrensis 157
biharica 158
bilineata 202
bipustulata (syn.) 146
biroi (ssp.) 124, 166
birulai (syn.) 143
Bittotaenia (sgen.) 111, 148
bivittata (syn.) 156
blaisdelli 201
blanchei 123, 158
blanda (syn.) 192
bodemeyeri (ssp.) 152
boeberi 142
bohemica (ssp.) 141
bohumilae (ssp.) 161
bonvouloiri (syn.) 184
borealis (ssp.) 118, 152
borneensis (ssp.) 184
borochorensis 179
bowringii 183, 200
brahma 110, 115, 150
brancuccii 148
breiti (syn.) 190
brevilata 179
brullei (syn.) 150
bruneli 135, 198
brunneipennis (ssp.) 139
brunnicornis 129, 182

brunsvicensis 168
bruttiana (ssp.) 171
bulgarensis (syn.) 190
bulgarnensis (syn.) 190
bungei 142
burchana 181
burchanica (lapsus calami) 181
burdigalensis (ssp.) 150
burgeoni 144
Byrrhiformis (syn.) 121, 158, 174
byzantia (ssp.) 158
caerula (syn.) 177
caesariensis (syn.) 155
caffra 201
caliginosa (ssp.) 171
camena (ssp.) 1727
cameranoi (syn.) 157
Camerounia (sgen.) 149
campestris 139
campicola (syn.) 175
canariensis (syn.) 150
canfrancensis (syn.) 176
cantabrica (ssp.) 176
capricornus 187
carbonaria (syn.) 176
carbonata 202
carinata 197
carnifex 150
carpathica 167
carpathica (hom.) 160
caspica 121, 122, 159
catalonica (ssp.) 112, 149
catenata 144
caucasica (hom.) 159
caucasica (ssp.) 192
Caudatochrysa (syn.) 142
caurina 143
cavigera 185
Cecchiniola (sgen.) 114, 149
centaura (syn.) 187
centaurei (syn.) 187
centaurii (syn.) 168
Centoptera (sgen.) 150
centralasiae (ssp.) 138
Ceralces (gen.) 201
cerealis 156
ceylonica 183
chalcites 190
chalcitis (syn.) 190
Chalcoidea (sgen.) 150
chalybea (syn.) 151
changaica (syn.) 185
changaiensis (ssp.) 139
cheni (syn.) 184
Chersomela (gen.) 107
chingana (ssp.) 138
chloris (ssp.) 193
chlorizans (syn.) 155
chloromaura (hom.) 173
chloromaura (ssp.) 173
christianae (ssp.) 165
Chrysocrosita (sgen.) 154
Chrysolina 137
Chrysolina s.str. (sgen.) 155
Chrysolinopsis (sgen.) 156
Chrysomela (gen.) 201, 202
Chrysomela Motsch. 164
Chrysomela auct. nec Linnaeus (syn.) 137
Chrysomorpha (sgen.) 156
Chrysonotum (syn.) 121, 191
cilissa 116, 134, 151
cinctella (syn.) 152
cinctipennis 151
cingulata (syn.) 154
circassicola (syn.) 158
circumducta (ssp.) 152
clarki 149
clathrata 144
clavareaui 135, 136, 197
clementzae 112
coarctata 149
Cobosorina (syn.) 188
coccinelloides (syn.) 146
coelestina (syn.) 148
coelophoroides 144
coerulans 191

coerulea (hom.) 177
coerulea (syn.) 137
coerulescens (ssp.) 151
coerulipes 183
coiffaiti (ssp.) 152
Colaphodes (sgen.) 157
Colaphoptera (sgen.) 158
Colaphosoma (sgen.) 162
colasi 188, 200
collaris (syn.) 140
collina (syn.) 177
compuncta 112, 148
concinna (syn.) 170, 200
concolor (syn.) 198
confluens 174
confossa 137
confusa (ssp.) 172
conglomerata 183
consimilis 144
consimilis (hom.) 171
consularis (syn.) 150
conversaria (syn.) 170
convexicollis 180
convexior (syn.) 152
copta (syn.) 178
corcyraea (syn.) 155
corcyrica 168
coriacea (ssp.) 137
coromandeliana (syn.) 165
corrosa 200
corrugata 199
corvina (ssp.) 158
costalis 155
costata (syn.) 156
costulata 197
Craspeda (sgen.) 162
crassicollis 159
crassicornis (hom.) 189
crassimargo (hom.)160
crassimargo (ssp.) 160
crassipes 172
crebieri (ssp.) 153
cretica 175
cribellata (hom.) 192
cribellata (ssp.) 171
cribraria 109, 139
cribrosa 195
cribrosa (syn.) 144
croatica Franz (hom.) 160
croatica (hom.) 192
Crositops (sgen.) 163
crotchi 202
cruentata (ssp.) 151
cupraria (syn.) 140
cuprea (syn.) 155
cupreolineata (ssp.) 201
cupreonitens (syn.) 165
cupreopunctata (syn.) 175
cupreopurpurea (hom.) 160
cupreopurpurea (syn.) 193
cuprina 168
cuprina (syn.) 148
curata 149
curvilinea 151
cyanea 109, 110, 139
cyanella 143
cyaneoaurata (ssp.) 157
cyaneopurpurea (lapsus calami) 179
cyaneovinosa 182
cyanescens (syn.) 151
cyanicollis 201
cyanicornis 136
cyanopurpurea 128, 179
Cyrtochrysolina (nomen nudum) 123
cyrtonastes (syn.) 179
cyrtonoides (hom.) 179
cyrtonoides 201
daccordii 179
daghestanica (ssp.) 169
dahli Herr. (hom.) 162
dahli Suffrian (hom.) 161
dahli (syn.) 160
dalailamai 179
dalia 197
danieli (syn.) 122, 159
daurica (ssp.) 156

daurica (syn.) 139
decempustulata 199
decempustulata (syn.) 145
decemstriata (syn.) 193
decipiens (ssp.) 188
democratica (syn.) 184
depressa (syn.) 151
derelicta (syn.) 148
desdoueti (syn.) 193
despecta (syn.) 167
deubeli (ssp.) 177
dhaulagirica 198
Diachalcoidea (sgen.) 163
dichroa (syn.) 173
didymata 168
dieckmanni 113, 116, 151
dieneri (syn.) 190
dierythra (ssp.) 152
differens 123, 159
difficilis 169
diga (syn.) 161
dilacerata (syn.) 174
dilecta (ssp.) 168
diluta 132, 177
diluta (hom.) 194
dimbrokensis (syn.) 174
dimidiata (syn.) 138
diminuta (ssp.) 161
discipennis (ssp.) 163
discriminata 180
dissipabilis (ssp.) 161
dissoluta 144
distans (syn.) 138
distincta (syn.) 160
distinguenda (syn.) 190
diversipes (ssp.) 162
Dlochrysa (syn.) 165
dogueti 166
dohertyi 120, 132, 133, 198
dohrnii 193
dolini 143
dolorosa (syn.) 150
dorsalis (syn.) 137
dubeshkoae 143
dudkoi 140
duodecimguttata 111, 144
duodecimlineata (syn.) 144
duodecimstillata 149
duperreyi 202
duplicata (syn.) 168
dzhungarica 130, 131, 193
ebraea (syn.) 146
eburneipennis 199
edughensis (syn.) 147
egelida (ssp.) 176
ehumerosa (ssp.) 177
elbursica (ssp.) 118, 154
eldae 166
elevata (syn.) 140
elongatior (ssp.) 168
elysia 149
embiensis (ssp.) 164
engelhardti 201
epipleuralis (syn.) 164
epipleurica (syn.) 190
ericae (syn.) 157
erivanicola (syn.) 161
erudita (ssp.) 162
Erythrochrysa (sgen.) 164
erythromera (syn.) 191
erythroptera (syn.) 157
espanoli (ssp.) 137
Euchrysolina (sgen.) 164
Eumela (syn.) 201
euminuta (ssp.) 177
eurina 109, 141
Eurypelta (gen.) 201
exaequata (syn.) 174
exanthematica 126, 170
exgeminata (syn.) 117, 125, 169
eximia (syn.) 165
exsul (syn.) 159
extorris 151
extricata (syn.) 197
fageli (ssp.) 194
faldermanni (ssp.) 113

fallaciosa (ssp.) 160
fallaciosa (syn.) 191
fallax (syn.) 181
falsa 202
fasciata 111, 144
fasciata (hom.) 156
fascinatrix 198
Fastuolina (sgen.) 165
fastuosa 165
femoralis 172
ferruginea 183
festiva (syn.) 190
figurata 111, 145
filchnerae (syn.) 154
fimbrialis 195
findeli (ssp.) 163
finitima (syn.) 117, 152
flavomarginata 151
flavosparsa (syn.) 145
florea (hom.) 176
fokiensis (syn.) 140
fortunata 199
fossulata (ssp.) 151
fossulifera (syn.) 174
foveopunctata (ssp.) 184
fragariae 187
franzi (ssp.) 160
freyi (syn.) 115, 152
fricata 169
friderici (ssp.) 188
frieseri (ssp.) 161
fucata (syn.) 169
fulgens (syn.) 157
fulgida (hom.) 192
fulgida (syn.) 164
fuliginosa 137
fulminans (syn.) 192
fulvoaenea 183
furva 163
fuscicornis (hom.) 121, 158
fuscipes (hom.) 180
fuscipes (syn.) 162
fuyunica 199
gabonensis 201
gabrieli (ssp.) 167
gahani (syn.) 198
galeopsidis (syn.) 165
galii (ssp.) 137
gallega (syn.) 173
Gallerucida (gen.) 201
gallica (ssp.) 176
gandensis (ssp.) 186
gastoni (ssp.) 138
gastonis (lapsus calami) 138
gaubili (syn.) 188
gebleri 185
gemellata (hom.) 170
Gemellata (syn.) 114, 148, 168, 175
gemellata (syn.) 169
gemina 156
geminata 169
gemmifera (ssp.) 171
gendreaui (ssp.) 137
gensanensis 141
Ghesquiereita 166
Ghesquierita (incorr. orig. spell.) 166
gibbipennis (syn.) 141
glacialis (syn.) 143, 153
glebi 181
globicollis (syn.) 186
globipennis 177
globosa 159
goettingensis Linnaeus (hom.) 162
goettingensis Schrank (hom.) 157
gracilis 169
graellsi (ssp.) 152
graja (ssp.) 189
graminis 164
grancanariensis 188
grata 112, 114, 148
grossa 173
grossepunctata (ssp.) 188
grouvellei (syn.) 183, 200
grutii (ssp.) 184
guichardi (syn.) 176
guttata Gebler (hom.) 126, 170

guttata Vogel (hom.) 145
guttata (syn.) 145
guttifera (syn.) 171
guttipennis 149
gypsophilae 188
haagi 145
haarlovi (syn.) 152
haemochlora 198
haemograpta 145
haemoptera 157
haemoptera Fabricius (hom.) 162
haemoptera Rossi (hom.) 152
halysa 126, 175
havelkai (ssp.) 167
hebe 111, 145
hecateia (ssp.) 171
helenae 181
helferi 183
Heliostola (sgen.) 167
hellieseni (ssp.) 189
helopioides 196
hemichlora (syn.) 198
hemisphaerica 159
herbacea 192
herii (ssp.) 176
hesperia (ssp.) 202
hobsoni (syn.) 190
hochhuthi 200
holdhausi (ssp.) 189
hopffgarteni (syn.) 167
Hoplosoma (hom.) 190
hottentota (syn.) 157
hudsonica 151
Humba (gen.) 136, 201
hungarica (syn.) 195
hustachei (ssp.) 189
hyacinthina (ssp.) 171
Hydrothassa (gen.) 200
hyperici 169
hyperici (hom.) 187
Hypericia (sgen.) 168
hyrcana 116, 151
ibizensis (syn.) 155
ifranensis (ssp.) 153
ignita (hom.) 192
ignita (syn.) 193
illita (syn.) 173
immarginata (syn.) 154
immetallica (ssp.) 186
impavida (ssp.) 191
imperfecta 120, 131, 194
impunctulata (ssp.) 186
incerta (syn.) 176
inconstans 184
incrassata (syn.) 190
indica 135, 136, 201
indigena (syn.) 170
indomita (ssp.) 171
indosinensis (ssp.) 184
inexplicabilis (ssp.) 165
inflata 135, 196
infuscipes (hom.) 180
iniussa (ssp.) 153
inornata 109, 139
insignis (ssp.) 189
instabilis 151
instructa (syn.) 138
insularis (ssp.) 202
intemerata 201
intercalaria (ssp.) 126, 175
intercoxalis (syn.) 201
interior (syn.) 155
interlucea 186
intermedia (ssp.) 189
interna (ssp.) 202
interruptofasciata 145
interstincta 151
interversa (syn.) 186
invicta 202
iranica (hom.) 178
iranica (ssp.) 191
isidis (syn.) 170
islandica (syn.) 167
italica (ssp.) 176
ivanovskiana (ssp.) 140
jacobsoni (syn.) 182

Jacobsonia (sgen.) 170
jacobyi 188
jailensis (ssp.) 194
jakovlevi (lapsus calami) 154
jakowlewi 119, 121, 154, 200
janbechynei (syn.) 151
janczyki 197
japana (syn.) 142
jeanneli 184
jenisseiensis 163
jodasi (syn.) 124, 166
jole (syn.) 198
joliveti 196
juldusana 128, 180
kabaki 163
kabakovi (syn.) 147
kafkana (syn.) 164
kaikana 143
kaltenbachi (syn.) 194
kamali 199
karachia 184
kaszabi 113
katangana 166
katarinae (syn.) 180
katonica 167
kavani (syn.) 163
kawakami (syn.) 147
keniae 202
ketmenica 128, 180
kiesenwetteri (syn.) 157
kinabaluensis 133, 134, 198
kiritshenkoi 129, 181
knabi 202
kocheri 177
koenigi 110, 128, 129, 180
koktumensis 117, 132, 135, 194
koltzei 139
konowi (syn.) 150
korbi (ssp.) 196
koreana (syn.) 147
koshantschikovi (syn.) 182
kowalewskii 112
kozlovi 179
krishnu 197
kryzhanovskii 143
kubanensis (syn.) 158
kubanica (syn.) 161
kuesteri 188
kuldzhensis 194
kulzeri (syn.) 154
kutaisa (syn.) 159
kuznetzowi (hom.) 182
kuznetzowi (syn.) 127, 143, 200
kwanghsiensis (syn.) 141
laboissierei (ssp.) 189
laeta (hom.) 172
laeta (syn.) 159
laevicollis (syn.) 190
laeviguttata 171
laevipennis (syn.) 173
laevipunctata (ssp.) 171
lamii (ssp.) 139
lamina (syn.) 191
laminula (syn.) 156
langobarda (ssp.) 196
lapidaria 160
latecincta 188
latifrons 136
latimargo 185
latipleura 149
laurentia 202
lederi (ssp.) 156
lehri 116, 117, 152
leonardii 148
lepida 138
lepida Brulle (hom.) 150
lepida Stephens (hom.) 155
lepida Suffrian (hom.) 155
lepineyi 172
lesinae (syn.) 193
levi 152
lia 110, 112, 115, 152
libanicola (syn.) 193
lichenis 167
limbata 163
limbatella 127, 178

limbifera (syn.) 163
limbolata (syn.) 186
limitata (syn.) 189
Linaeidea (gen.) 202
linaeides (syn.) 141
linea (syn.) 144
lineata (ssp.) 194
lineella 141
lineigera 141
lineolata (syn.) 144
lineoligera 145
linoides (lapsus calami) 142
Liomela (gen.) 107
Lithocrosita (sgen.) 112, 170
Lithoptera (hom.) 170
Lithopteroides (sgen.) 170
littorea (ssp.) 202
liturata 200
livonica (syn.)157
lobicollis (syn.) 108, 138
lomata (syn.) 150
longicornis 197
longipes 112
lopatini 120, 129, 130, 182
luchti 182
lucida 173
lucida (hom.) 173
lucidala (syn.) 195
lucidicollis (ssp.) 188
lucidula 184
lugubrina (syn.) 124, 168
luigionii (ssp.) 163
luminosa 187
lurida Linnaeus (hom.) 194
lurida Olivier (hom.) 177
lusitanica Gmelin (hom.) 150
lusitanica Gyllenhal (hom.) 166
lutea 173
luteocincta (ssp.) 153
luxurians (syn.) 157
lynx (syn.) 145
macromela (ssp.) 160
mactata 189
maculatissima (syn.) 174
maderensis (syn.) 155
madrasae 184
Maenadochrysa (sgen.) 171
maestitialis (syn.) 195
magniceps (syn.) 142
mairei 196
malaccensis (syn.) 183
malayana 184
malleti (ssp.) 188
malvernensis (syn.) 149
mancinii (syn.) 189
mandarina (syn.) 108, 138
mangaliana (ssp.) 194
manipurensis 152
mansueta (syn.) 144
marcasitica 123, 160
margarita (syn.) 187
marginalis (syn.) 190
marginata 113, 118, 152
marginepicta 145
marginicollis (ssp.) 153
mariannae (syn.) 192
maritima (ssp.) 195
marseuli (hom.) 150
marseuli (syn.) 171
marshalii (syn.) 174
marshalli 145
marshami (syn.) 187
martjanovi (nomen nudum) 187
masoni 166
matronula (ssp.) 112
mauliki 197
mediterranea (ssp.) 165
mediterranea (syn.) 155
medogana 169
medvedevi 182
megerlei (ssp.) 157
megriensis (syn.) 148
melanaria (syn.) 156
melanaspis (syn.) 197
melanostigma (syn.) 190
Melasoma (syn.) 201, 202

Melasomoptera (sgen.) 173
mellyi 148
menthae (syn.) 161
menthastri (syn.) 192
Menthastriella (syn.) 191
meridionalis (hom.) 192
meridionalis (syn.) 191
mesatlantica 172
metallica 166
metallica (hom.) 161
micans (syn.) 140
microsticha (ssp.) 137
milleri 147
mima (syn.) 150
Mimophaedon (sgen.) 173
Minckia (syn.) 130, 190
minckwitzi 126, 175
minuscula 166
minutior (syn.) 161
mixta (hom.) 157
mixta (ssp.) 157
modesta 201
modesta (syn.) 144
mohri 129, 181
molluginis (syn.) 158
molluginis Redtenbacher (hom.) 195
molluginis Suffrian (hom.) 137
monardi (syn.) 166
Monardita (syn.) 201
mongolensis 180
montana 147
montanella (ssp.) 177
montivagans (syn.) 139
moraviaca (ssp.) 167
morio (hom.) 176
morvennensis (syn.) 190
muchei (ssp.) 176
mulsa 201
multifida 145
multimaculata 202
muralis (ssp.) 138
murina 166
musiva (syn.) 126, 170
mutabilis (syn.) 201
Naluhia (sgen.) 174
naratica 181
nebulosa (syn.) 198
neglecta 141
nepalensis 200
nevadensis (ssp.) 172
nevesinjensis (ssp.) 194
nigerrima (syn.) 167
nigra Clark (hom.) 146
nigra Reitter (hom.) 124, 168
nigra (syn.) 158
nigricans (syn.) 141
nigricollis (ssp.) 188
nigrita (hom.) 162
nigrita (syn.) 137
nigritula (ssp.) 124, 168
nigrocuprea (syn.) 164
nigrofasciata (syn.) 144
nigrogemmata (syn.) 171
nigrolucens (ssp.) 148
nigromaculata 174
nigropunctata (syn.) 150
nigrosignata (syn.) 174
nigrovittata 135, 198
nikinoja (syn.) 117, 125, 169
nikkoensis 169
nikolskyi 147
nilotica (ssp.) 158
niobe (syn.) 183
nitens (syn.) 156
nitida 202
nitidula (syn.) 193
norica (ssp.) 189
normandi (syn.) 170
notiophila (syn.) 160
novemvittata (syn.) 145
novosibirica (syn.) 144
numida 127, 177
nushana 199
nyalamana 139
obenbergeri 196
oberndorferi (syn.) 191

obesa (ssp.) 201
oblonga (syn.) 191
obovata 181
obscurata 202
obscurata (syn.) 162
obscurefacta (ssp.) 194
obscurella 196
obscuriventris (ssp.) 154
obscurofasciata (syn.) 165
obsoleta 155
obtexta (syn.) 174
occidentalis (syn.) 174
ocelligera 199, 200
octocosta 143
octopustulata (syn.) 146
octovittata (syn.) 157
ogloblini (hom.) 136, 140
ogloblini (ssp.) 164
ohoi 170
oirota 143
olivacea (hom.) 162
olivacea (syn.) 191
olivaceonigra (syn.) 191
olivieri 177
ominosa (ssp.) 160
omisiensis (syn.) 141
omoka (syn.) 142
Omolina (gen.) 107
onychina (syn.) 187
ooensis (syn.) 187
ootypa (ssp.) 172
opaca (syn.) 137
opacicollis 138
opacipennis (syn.) 139
opulenta 201
opulenta (hom.) 161
ordinata 182
Oreina (gen.) 107, 201
Oreina Monros et Bechyne (hom.) 137
oricalcia 190
orichalcea (syn.) 191
orientalis 175
orientalis (hom.) 183
ornata (hom.) 149, 200
ornata (syn.) 157
orthostigma (syn.) 174
oschanini 128, 129, 180
osellai 196
oshanini (lapsus calami) 180
ottomana (hom.) 158
ottomana (ssp.) 176
Ovomorpha (syn.) 188
Ovosoma (sgen.) 174
Ovostoma (sgen.) 176
pachysoma (syn.) 161
pachysomoides (ssp.) 160
pala 141
Palaeosticta (sgen.) 177
palaestina (ssp.) 126, 175
palliata 145
palliata (hom.) 156
pallidipes (ssp.) 140
palmyrensis 127, 178
palustris (syn.) 193
pannonica (syn.) 161
Paracrosita (sgen.) 178
Paradiachalcoida (lapsus calami) 178
Paradiachalcoidea (sgen.) 178
paradoxa 130, 187
Paraheliostola (sgen.) 178
Paramenthastriella (sgen.) 179
pardalina 111, 145
pardoi 127, 178
Parkaniola (syn.) 175
parumnitens (ssp.) 172
parvati (syn.) 154
patriciae 166
pauliani (ssp.) 196
pauperata (syn.) 166
pavlenkoi 189
pedestris 123, 163
pekinensis (syn.) 141
pelagica (syn.) 196
peloritana (syn.) 155
peninsularis 109, 139
peregrina 191

perfecta (syn.) 182
perforata 139
perforata (hom.) 200
peripherica (syn.) 159
pernitescens (ssp.) 172
perplexa (syn.) 141
persica (hom.) 178
persica (ssp.) 158
pertusa (syn.) 197
petrenkoi 128, 180
peyroni (ssp.) 193
Pezocrosita (sgen.) 127, 128, 179
phaeaca (syn.) 155
philotesia 147
picturata (syn.) 145
pieli 199
Pierryvettia (sgen.) 183
piffli (ssp.) 192
pigra 113
pirka (syn.) 185
placida (ssp.) 202
plagidorsis (syn.) 174
plagioderoides 199
planicollis 161
platypoda 148
platyscelidina 113, 114, 115, 149
Pleurosticha (sgen.) 185
pliginskii 161
plorans (syn.) 157
plumbeonigra (ssp.) 136, 160
pluscula (ssp.) 195
plusquamperfecta (ssp.) 194
polita 164
polonica (ssp.) 162
polychroma (ssp.) 155
polyops 145
Polysticta (syn.) 144
Polystictella (syn.) 149
ponderosa (syn.) 201
poretzkyi (ssp.) 130, 185
poricollis (ssp.) 108, 138
porosa (syn.) 190
porosinensus (lapsus calami) 142
porosirensis 142
porphyrea 161
porphyrea (hom.) 175
porphyropus (ssp.) 172
portai (ssp.) 153
postviolacea 199
Potaninia (gen.) 201
pourtoyi 174
prasina (syn.) 150
pratensis (syn.) 187
praticola 200
privigna (syn.) 169
problematica 145
problematica (syn.) 141
progressa 146
Promechus (gen.) 136
przewalskii 181
przewalskyi 118, 119, 120, 154, 200
pseudoaenea 172
Pseudocrosita (sgen.) 186
pseudogeminata (syn.) 169
Pseudolithoptera (sgen.) 186
pseudolurida (ssp.) 194
Pseudotaeniochrysea (sgen.) 186
Pseudotimarchomima (sgen.) 186
pterosticha (syn.) 123, 163
pubiceps 201
pubitarsis (syn.) 124, 125, 169
pudica 170
pulchella (syn.) 145
pulcher 136
pulla 146
punjabiensis 199
purini (ssp.) 153
purkynei (syn.) 182
purpurascens (ssp.) 160
purpurata 140
pusa 130, 135, 182
putealis (ssp.) 172
pyrenaica (ssp.) 176
pyrrhopyga 201
quadrangulata 141
quadricollis (syn.) 167

quadrigemina 170
quadristriata 202
quangoensis (ssp.) 144
quatuordecimguttata (syn.) 144
quinquejugis (syn.) 168
raetica (ssp.) 189
rajah 136
recticollis (ssp.) 192
recticollis (syn.) 141
regalis (syn.) 150
regularis (syn.) 138
reichei (syn.) 201
reitteri 194
relicta (ssp.) 192
relucens 142
rementina (ssp.) 159
remigrata (ssp.) 196
repanda 146
reprehensa (ssp.) 159
resplendens (syn.) 192
reuleauxi (syn.) 168
revestita 111, 146
rhipaea (ssp.) 167
rhodia 126, 175
Rhyssoloma (sgen.) 187
richteri (syn.) 190
roborowskii 181
robusta (syn.) 161
roddi 113, 124, 163
rossia 189
rossii (syn.) 189
rosti 122, 123, 161
roubali (ssp.) 153
roulleaui (ssp.) 153
ruandana 166
rubra (syn.) 198
rubricus 196
rubripennis (syn.) 186
rubrocuprea (syn.) 156
rubromarginata (syn.) 190
rufa 161
ruffoi 178
ruficornis (ssp.) 133, 134, 199
rufilabris 110, 129, 130, 182
rufipes (hom.) 185
rufoaenea 191
rufocingulata (syn.) 195
rufofemorata (ssp.) 171
rufohumeralis (ssp.) 189
rufolineata (ssp.) 157
rufomarginata (hom.) 200
rufomarginata (syn.) 188
rugicollis (syn.) 192
ruginosa 199
rugipennis (syn.) 137
rugosopunctata (hom.) 153
rugulosa 170, 200
rugulosa (ssp.) 165
rutilans 201
rutilans (hom.) 156
sacarum 164
saegeri (syn.) 166
sahlbergi 126, 175
sahlbergiana 127, 182, 200
sajanensis (ssp.) 185
sajanica 130, 182
salisburiensis (syn.) 186
salviae 112, 148
samarensis 194
sanguinea (syn.) 190
sanguineocincta (ssp.) 153
sanguinolenta 189
sansibarica (syn.) 201
santonici (ssp.) 165
sarcandica 180
sardea (syn.) 193
sarroensis 153
saurica 143
saxonica (ssp.) 132, 194
schach (syn.) 150
schaefferi (syn.) 139
schallehni (syn.) 165
schatzmayri 142
schewyrewi 167
schneideri 168
schotti (syn.) 191

scorodon 196
scovitzi (lapsus calami) 150
scovitzii (syn.) 150
sculpticollis (ssp.) 153
sculptipennis (ssp.) 112, 149
sculpturata (syn.) 143
scutellaris (syn.) 201
seenoi 167
sellata 153
Semenowia (gen.) 107
semifulva 198
semiglobosa (syn.) 192
semiopaca (syn.) 137
semirufa 149
semiviolacea (syn.) 201
semota 202
separata 184
septentrionalis 143
sequana (ssp.) 194
serdanensis 196
seriatipora 147
seriatophora (lapsus calami) 147
seriatopora (lapsus calami) 147
sericata (syn.) 170
seriepunctata 120, 133, 135, 199
sexlineata 146
shapaensis 184
sharpi (syn.) 156
shikokensis (syn.) 169
siamensis (syn.) 184
sibirica (ssp.) 138
Sibiriella (sgen.) 187
sicula (syn.) 190
sierrana (ssp.) 189
silvanae 127, 178
silvatica (lapsus calami) 185
simillima (ssp.) 140
simonsi 174
sirentensis (ssp.) 195
siruense (ssp.) 199
slovaca (ssp.) 177
sogdiorum 110, 1119, 121, 154
soiota 179
solata 196
solida (ssp.) 147
solitaria (syn.) 152
soluta (syn.) 146
songorica (syn.) 152
sonorae 202
sparshalli (syn.) 190
speciosa 201
spectabilis 121, 155
speculifera (syn.) 170
Sphaeratrix (gen.) 136, 201
Sphaerolina (gen.) 136
Sphaeromela (sgen.) 187
spiloptera 167
splendidula 184
splendorifera (ssp.) 192
squalida (ssp.) 161
stachydis 190
stalii 140
staneki (ssp.) 168
staphylaea 155
staphylaeoides (ssp.) 161
staphylea (lapsus calami) 156
starhorni (syn.) 191
Starycea (gen.) 201
stevensi 184
Stichoptera (sgen.) 188
Stichosoma (syn.) 155
stictica 184
stoeckleini (ssp.) 160
straeleni (syn.) 167
striata 111, 146
striata Fourcroy (hom.) 194
striata Voet (hom.) 193
sturmi 162
suarezi (ssp.) 173
subaenea Motschulsky (hom.) 171
subaenea Suffrian (hom.) 187
subaenea (syn.) 158
subalpina (syn.) 177
subcoerulea (syn.) 148
subcostata 130, 185
subcruciata (syn.) 145

subfasciata (syn.) 152
subfastuosa (syn.) 192
subferruginea (syn.) 156
subincrassata (syn.) 160
subopaca (syn.) 139
subseriata (ssp.) 152
subseriata (syn.) 139
subseriepunctata (syn.) 168
substrangulata 148
subsulcata 143
suffriani 192
sulcata (hom.) 142
sulcata (syn.) 152
sulcicollis 147
Sulcicollis (sgen.) 130, 190
sumatrensis 133, 184
superba 135, 186
superstes 153
susterai 176
sutilis (ssp.) 160
sutschanica (ssp.) 147
suturalis (ssp.) 167
sylvatica 185
Synerga (hom.) 201
Synerga (sgen.) 191
syriaca (ssp.) 168
Taeniochrysea (sgen.) 193
taeniolata 146
Taeniosticha (sgen.) 193
tagana 196
tagenii (ssp.) 172
taibaica 199
taimyrensis 202
talyshana (ssp.) 192
tangeriana 197
tani 181
tarda (syn.) 138
tarragonensis (ssp.) 189
tastavica 143
taupini (syn.) 164
taurica (syn.) 161
taygetana 132, 134, 195
teichophila 200
tekessica 180
teleuta 143
teleutica (lapsus calami) 143
templetoni 135, 136, 198
templetoni (Sph.) 136
tesari 118, 135, 154
tetraspilota 111, 146
thalassina 173
thraeissa (ssp.) 175
Threnosoma (sgen.) 195
thurntaxisi (syn.) 141
tianshanica 131, 195
tibialis 182
tieutaini (syn.) 201
Timarchida (gen.) 107
timarchoides 173
Timarcholina (sgen.) 197
Timarchomela (sgen.) 197
Timarchomima (gen.) 136, 201
Timarchoptera (sgen.) 198
tingitana (ssp.) 173
tolbensis (ssp.) 140
tolli 185
tonkinea 185
torresi (ssp.) 173
tortipennis 197
tortipennis (hom.) 197
tortuosa 146
transvalense 199
trapezicollis (syn.) 123, 159
trebinjensis (ssp.) 153
trichophila (lapsus calami) 200
tricolor 146
tripolitanica (syn.) 148
tshatkalica 181
tundralis (syn.) 143
turanica 112, 149
turca 176
turczaninoffi (syn.) 139
turgaica 154
turgida (ssp.) 161
tuvensis 183
ubertini (syn.) 193

umbratilis 162
undata 200
undulata 183
unicolor 113, 118, 154
unicolor (hom.) 158
unificans (ssp.) 153
upembae (syn.) 167
uraltuvensis 185
urbana 200
urjanchaica 180
urumchiana 113
ussuriensis (ssp.) 125, 169
uzbekorum (ssp.) 192
vagecincta 154
vagesplendens (syn.) 141
valichanovi 143
vallesiaca (ssp.) 189
variabilis 201
varians 187
variolosa 190
variolosa (syn.) 139
varipes (ssp.) 172
varivestis (syn.) 145
venefica (syn.) 175
veneta (ssp.) 177
ventricosa (ssp.) 166
verestschaginae 180
verhulsti (ssp.) 174
vermiculosa 173
vernalis 176
vicenaria (syn.) 146
vicinitatis (ssp.) 171
vidua (ssp.) 151
vigintiguttata (hom.), 146
vigintiguttata (syn.) 145
vigintimaculata 111, 146
vigintipustulata 146
vigintiquatuorsignata 146
vignai 178
vilhenai (syn.) 174
villiersi 133, 199
violacea Panzer (hom.) 191
violacea Schaller (hom.) 157
violacea Weise (hom.) 162
violacea (syn.) 137
violaceicollis (syn.) 141
violaceocoerulea (syn.) 137
virgata 165
viridana 192
viridiaenea (syn.) 187
viridipurpurea (ssp.) 155
viridis (syn.) 160
viridisplendens (syn.) 141
viridula (syn.) 169
vishnu 154
vitalei (syn.) 155
vitalisi 185
vitellina (syn.) 191
vitiosa (ssp.) 196
vittata (syn.) 145
Vittatochrysa (sgen.) 198
vrangeliani (ssp.) 129, 182
vulgatissima (hom.) 162
vulpecula 146
vulpina 146
wallacei (syn.) 141
walshi 202
watanabei (syn.) 141
weisei 197
winkleri (ssp.) 195
winneguthi (ssp.) 117, 126, 175
wittmeri 176
wollastoni 156
wollosowiczi 144
wrangeliana 202
xanthophryna (ssp.) 171
yezoensis (ssp.) 125, 169
yunnanica (syn.) 141
yupeiyuae 181
zamotajlovi 154
zangana 140
Zeugotaenia (syn.) 162
zhongdiana 199

## Errata to fascicle 1/2001:

In the paper published in fascicle 1/2001: I.K. LOPATIN "Review of Iranian species of the genus *Tituboea* LACORDAIRE, 1848 (*Coleoptera*: *Chrysomelidae*), pp. 35-43, number of figures cited in the text should be corrected as follows:

p. 36 - fig. 1 to figs 1, 2; fig. 2 to figs. 3, 4
p. 37 - fig. 3 to figs 5, 6; fig. 4 to fig. 7
p. 38 - fig. 5 to figs 8, 9; fig. 6 to figs 10, 11; fig. 7 to figs 12, 13; fig. 8 to figs 14, 15; fig. 9 to figs. 16, 17; fig. 10 to figs 18, 19
p. 39 - fig. 11 to figs 20, 21; fig. 12 to figs 22, 23; fig. 13 to figs 24, 25
p. 40 - figs 15, 16 to 29, 31; fig. 15 to figs 28, 29; fig. 16 to figs 30, 31
p. 41 - fig. 5 to figs 8, 9
p. 42 - fig. 14 to figs 26, 27

Explanation to figures 24-31 should be continued "... 30, 31 - *T. affinis*".

Corrected version of the paper is available in PDF format on the "Genus" web page: **www.biol.uni.wroc.pl/cassidae/genus.htm**